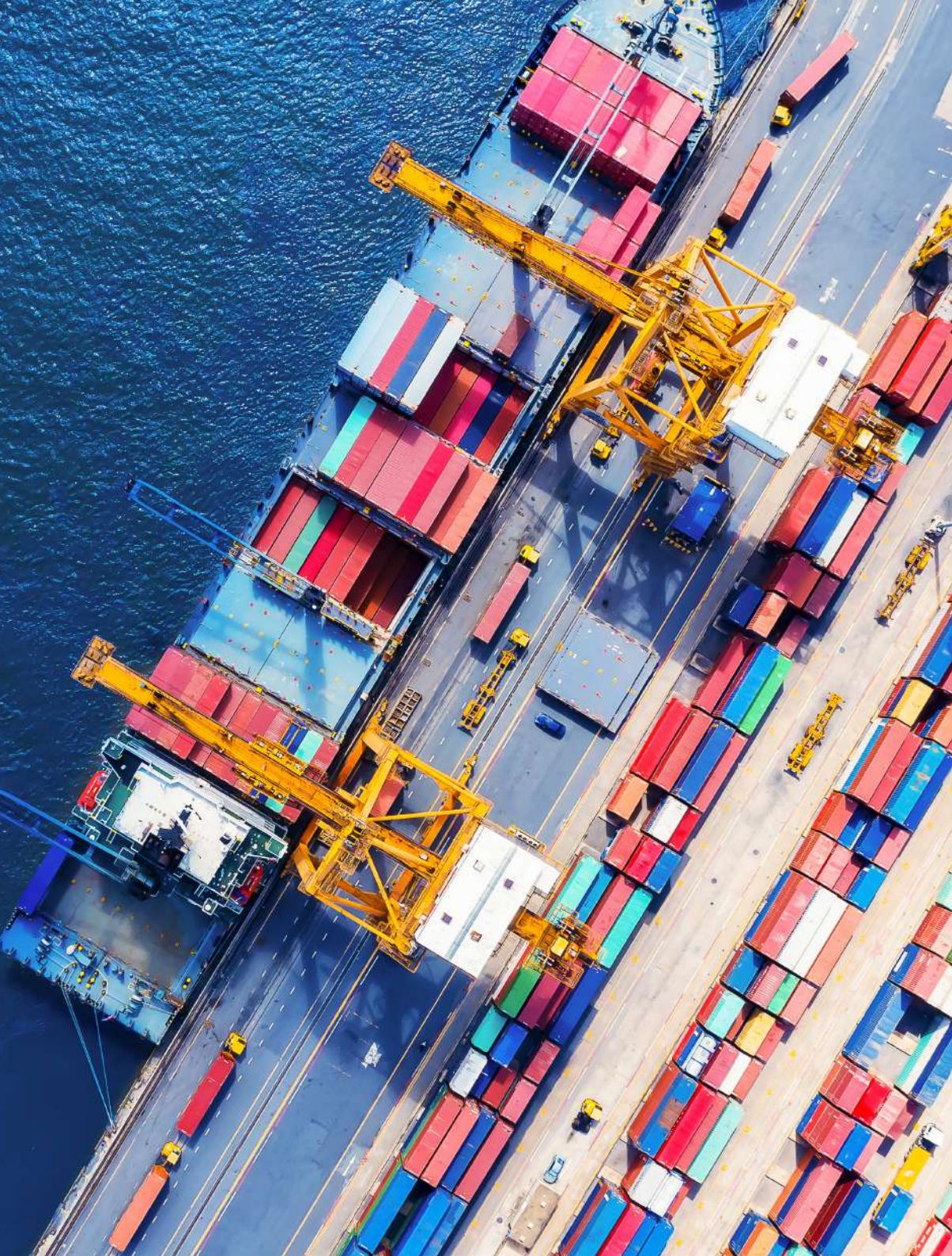




# Quick access to global markets

An overview of compliance requirements for electrical and electronic goods in leading regions and countries as of May 2024

Add value.  
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# International approval service

01

# Global opportunities

Market liberalisation and enhanced international trade cooperation have fostered a nearly borderless world. This has accelerated the exchange of goods, services, people, capital, and ideas.

Consequently, businesses experience heightened global presence, expanded market shares, and increased profitability.

## Global challenges

While trade barriers have diminished, businesses encounter hurdles known as “technical trade barriers.” These barriers involve governmental regulations such as product testing and certification requirements. Manufacturers must navigate these obstacles to enter new markets.

As countries continue to draft and enforce regulations, the regulatory landscape grows more intricate. This expansion encompasses areas beyond product safety and EMC, including social compliance, business conformity, and environmental standards.

## Addressing the challenges

Creating a product that meets the requirements of all the leading markets in the world is a rewarding and sustainable approach for manufacturers.

However, securing approvals for each market can be complex, time consuming, and costly, potentially jeopardizing a company’s competitive advantage and time to market.

The involvement of an experienced compliance expert, such as TÜV SÜD, enables manufacturers to efficiently and cost effectively meet product safety, EMC and other requirements of target countries. Product certifications by TÜV SÜD can also minimise product liability risks and act as a strong marketing advantage against competitors.

Here are 3 tips for quick market access:

- Be aware of the regulations, product testing and certification requirements of target countries and regions.
- Attend seminars by organisations with expertise in the field of Global Market Access (GMA).
- Seek advice from GMA specialists like TÜV SÜD even before designing products. An early understanding of electrical safety, EMC, telecom and wireless conformity requirements of different countries can avoid non compliance and save costly redesign efforts.

# Global Market Access

02

# What is Global Market Access?

Global Market Access (GMA) is a systematic process of managing compliance with regulations for manufacturers to gain access to global markets.

GMA enables manufacturers to comply with regulations and standards of target countries and regions, and obtain necessary approval.

## Benefits of Global Market Access

With GMA, manufacturers can significantly reduce cost and the time needed to market its products.

For example:

- Having a single interface dealing with regulators of target markets will allow logistic issues for each country/region of destination to be resolved smoothly.
- Consolidated testing for one product or a family of models to account for national and model differences will reduce time to market and minimize cost on multiple or duplicate tests.
- Regular and timely updates of changes in the global regulatory landscape by a GMA partner will allow manufacturers to be better prepared on issues affecting their operations.



## Global Market Access avenues

Each manufacturer requires a unique GMA solution, depending on the product category and target market. The GMA solution revolves around five main avenues:

### 1. Governmental MRAs (Mutual Recognition Agreements)

An efficient GMA solution, this involves making use of inter-governmental recognition of each other's Certification Bodies (CB) and sets of approval. MRAs promote cross border stakeholder confidence and the acceptance of accredited conformity assessment bodies (CAB).

This negates the need for duplicative testing, inspection or calibration of goods upon entry to importing countries. TÜV SÜD is a designated CAB for numerous products in countries across the globe.

### 2. Third-party accredited bodies

Local regulators define the requirements for CBs to be accredited for the provision of third-party certification services. Engaging a third-party accredited body like TÜV SÜD provides businesses and their stakeholders with the assurance that a formalised and structured approach to attaining the certification is applied without bias.

The TÜV SÜD Group holds many accreditations granted by numerous regulatory bodies across the globe. Manufacturers can benefit from the global, third-party recognition that certification provides and even use their certification as a stepping stone to a more expedient ISO certification.

### 3. Bilateral agreements

This avenue involves bilateral agreements, or Memorandums of Understanding (MOU), between target countries' CBs. This allows one CB to obtain approval or certifications for products from another, where it is required or requested.

TÜV SÜD has bilateral agreements with a number of certification agencies, such as:

- Korea Testing Laboratory (KTL)
- Standards Institution of Israel (SII)
- Instituto Argentino de Normalización y Certificación (IRAM)

### 4. Multilateral agreements

These agreements are based on mutual recognition of multiple national CBs. For example, as a member of the CB Scheme – also known as the Scheme of the International Electrotechnical Commission System for Conformity Testing and Certification of Electrical Equipment (IECEE) – TÜV SÜD offers manufacturers and exporters an opportunity to increase global marketability.

The scheme facilitates the international exchange and acceptance of product-safety test results among participating CBs for national approval or certification in one or more countries, usually without the need for additional testing. It covers 53 participating countries, 94 National CBs and 564 CB testing laboratories.

### 5. Interface with regulators

In some cases, it is required that certification is issued by the regulatory agency of the target country or region. Dealing directly with a regulatory agency can be a frustrating and expensive process.

On behalf of its customers, TÜV SÜD can obtain the necessary approval and certification from the agency of the target country or region in an effort to expedite and ease the process.

## TÜV SÜD GMA services



To market and sell products in today's global economy, staying abreast of rapidly changing regulations for each individual country/region can be an exhausting task. To meet this challenging demand, TÜV SÜD offers a host of GMA services to assist organisations in gaining country-specific product certifications and quality registrations.

Any enterprise that desires to introduce its products into the global market requires a competent partner by its side. Through its experience and capabilities, TÜV SÜD will provide experts that understand each manufacturer's unique approval requirements, saving precious time and resources in the process of introducing products to the global market.

With a global network of offices, TÜV SÜD has created a unique level of competence in individual country/region requirements – a network that leverages manufacturers' particular needs while breaking down cultural barriers through communication.

Manufacturers can benefit from TÜV SÜD's comprehensive services:

- Advice on respective countries' compliance requirements and approval strategy.
- Product testing and certification.
- Review of test data to ensure compliance and consultancy for design changes, where necessary.
- Preparation and completion of application package and interface with regulatory officials.
- Post-submission follow up with authorities.

## Your partner for Global Market Access

We act as your international regulatory approvals department. Our experts provide guidance on the compliance requirements and approval strategy for each country/region. We also perform product testing to the correct test standards as required, in some cases provide access to local representation for clients with no presence in the respective countries, prepare applications on your behalf, perform a post-submission follow-up with the authorities/certification bodies, conduct training for your staff on technical standards used for implementation of regulations, and update you on the latest regulatory changes.



# Application of the e-guidebook to global market access

03

### 03 Application of the e-guidebook to global market access

This e-guidebook presents key market-entry conformity requirements for quick access to global markets. It demonstrates the importance of accounting for these requisites early in the product design phase to shorten product launch cycles and maximise profitability.

Readers will acquire valuable information on regulatory agencies, conformity requirements, application guidelines and product categories for more than 40 countries across the globe. This is a guide on all you need to know about regulatory requirements in key markets, packed with tips from the experts and how TÜV SÜD can help.

#### Scope of the e-guidebook

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Electrical safety

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Electromagnetic Compatibility (EMC)

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Environmental\*

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Telecom and wireless

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\* Environmental requirements may cover energy efficiency, restriction of the use of certain hazardous substances (RoHS), and Waste Electrical and Electronic Equipment (WEEE) requirements.

## Country/region list

Europe		The Americas	Australasia	Asia		Middle East	
Azerbaijan	Moldova	Argentina	Australia	Brunei Darussalam	Malaysia	Algeria	Saudi Arabia
EAEU	Serbia	Brazil	New Zealand	Cambodia	Mongolia	Egypt	United Arab Emirates
European Union	United Kingdom	Canada		China	Philippines	GCC	
Kazakhstan	Uzbekistan	Chile	Africa	Hong Kong	Singapore	Israel	
		Colombia	South Africa	India	Taiwan	Kenya	
		Ecuador		Indonesia	Thailand	Kuwait	
		Mexico		Japan	Vietnam	Nigeria	
		United States of America		Korea (South)		Oman	

### Glossary of commonly used abbreviations

<b>CAB</b>	Conformity Assessment Body	<b>MRA</b>	Mutual Recognition Agreement
<b>CB</b>	Certification Body	<b>RAB</b>	Registered Assessment Body
<b>CoC</b>	Certificate of Conformity	<b>RCAB</b>	Registered Conformity Assessment Body
<b>DoC</b>	Declaration of Conformity	<b>RCB</b>	Registered Certification Body
<b>MOU</b>	Memorandum of Understanding	<b>SDoC</b>	Supplier's Declaration of Conformity

# How to use this e-guidebook

This e-guidebook holds information that will enable you to:

- 1. Determine the countries in which you intend to market and/or sell your products**  
It is essential to map out your target countries at an early stage. This will assist you in the creation of a comprehensive file for GMA and prevent future duplicative course of action.
- 2. Understand the conformity requirements of your target country/region(s)**  
It is important to understand the requirements of each target country/region as local requirements can differ greatly from country to country. The key entry requirements of each country/region are detailed in this e-guidebook. Please note that where “manufacturer” is used, it typically represents manufacturers, importers and distributors of products that are to enter the target country/region.
- 3. Identify the conformity requirements that apply to your unique product**  
This step is a challenging one due to the complex nature of the global regulatory framework – one or a combination of regulatory requirements may apply depending on the product.  
  
An in-depth knowledge of country-specific regulations, on top of a thorough understanding of your unique product, is crucial. Thus, partnering with a GMA expert would be of great benefit in identifying the conformity requirements and standards that apply to your product.
- 4. Identify necessary data and procedures required as part of the application process**  
Documentation and application procedures may vary depending on the type of compliance that is required by the specific country/region regulations and/or product.  
  
This e-guidebook equips you with the fundamental information that you will need to complete the application process. Nonetheless, engaging the assistance of a worthy GMA partner would ensure that the preparation process is structured and uncomplicated.
- 5. Recognise how TÜV SÜD is willing and able to help as a GMA partner**  
With its one-stop GMA solutions, TÜV SÜD is a worthy partner that can provide you with all the necessary information and expertise for your quick access to global markets. Where accreditations are mentioned, please note that they are held by various subsidiaries of TÜV SÜD Group. For more information about TÜV SÜD, please visit our website [www.tuvsud.com](http://www.tuvsud.com).

## Where to obtain more information

This e-guidebook attempts to consolidate the key requirements of countries spanning across 6 regions for the ease and convenience of its readers.

Please note that all reasonable measures have been taken to ensure the quality, reliability, and accuracy of the information in this e-guidebook. However, country/region requirements are constantly changing and therefore information presented may possibly be incomplete or inaccurate.

The information in this e-guidebook will be updated regularly so as to stay current with the ever-changing global regulatory framework.

For more information, please contact your nearest local TÜV SÜD office:

Americas	<a href="mailto:gma.us@tuvsud.com">gma.us@tuvsud.com</a>
ASEAN	<a href="mailto:gma.sg@tuvsud.com">gma.sg@tuvsud.com</a>
Australia	<a href="mailto:gma.sg@tuvsud.com">gma.sg@tuvsud.com</a>
China	<a href="mailto:gma.gcn@tuvsud.com">gma.gcn@tuvsud.com</a>
Italy	<a href="mailto:ps.gma@tuvsud.com">ps.gma@tuvsud.com</a>

Germany, Swiss, Austria	<a href="mailto:gma@tuvsud.com">gma@tuvsud.com</a>
United Kingdom (UK)	<a href="mailto:gma.uk@tuvsud.com">gma.uk@tuvsud.com</a>
Other Europe countries	<a href="mailto:gma@tuvsud.com">gma@tuvsud.com</a>
India	<a href="mailto:gma.in@tuvsud.com">gma.in@tuvsud.com</a>
Japan	<a href="mailto:gma.jp@tuvsud.com">gma.jp@tuvsud.com</a>
Korea (South)	<a href="mailto:gma.kr@tuvsud.com">gma.kr@tuvsud.com</a>
Middle East	<a href="mailto:gma.ae@tuvsud.com">gma.ae@tuvsud.com</a>

If you are located in a country/region that does not have a local GMA office, please contact  
[gma.global@tuvsud.com](mailto:gma.global@tuvsud.com)

### Disclaimer

This e-guidebook is intended to provide general information on a particular subject or subjects and is not an exhaustive treatment of such subject(s). Accordingly, the information in this e-guidebook is not intended to and shall not constitute consulting or professional advice or services. If you are seeking specific advice on any matters relating to information in this e-guidebook, you should – where appropriate – contact us directly with your specific query or seek advice from qualified professionals. The accreditations mentioned in this e-guidebook are held by the various subsidiaries of TÜV SÜD.

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# Regulations

04



# Azerbaijan

## Azerbaijan conformity requirements

Category	Regulatory Agency	Regulations
Electrical safety	The Ministry of Economy and Industry of the Republic of Azerbaijan	<p></p> <ul style="list-style-type: none"> <li>The Certificate of Conformity (CoC) is the mandatory document required for the customs clearance in the Republic of Azerbaijan in order to certify that all products sold in Azerbaijan comply with the Safety and EMC requirements of the National Certification System.</li> <li>One AZS LVD CoC and one AZS EMC CoC should be applied for the certain goods.</li> </ul>
EMC		<p></p>

## Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approvals.

## General specifications

Voltage	220V (Single Phase)
Frequency	50Hz
Manual Language	Azerbaijani language
Plug Type	C/F

## Guidelines

- Certificate of Conformity could be issued on basis of documents submission and testing of samples.
- A local representative is required for the application.



# Azerbaijan

## Azerbaijan conformity requirements

Category	Regulatory Agency	Regulations
Telecom & wireless 	The Ministry of Transport, Communications and High Technologies of the Republic of Azerbaijan (MINCOM)	<ul style="list-style-type: none"> <li>Rules of certification of telecommunication aids and devices in the Republic of Azerbaijan were confirmed by decision №175 of August 21, 1998 (with additions and changes) by the Cabinet of Ministers of the Republic of Azerbaijan.</li> <li>Telecom and radio equipment are regulated by The Ministry of Transport, Communications and High Technologies, which includes telecom and radio equipment devices.</li> </ul>

### Applicable product categories

All telecom and radio equipment.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approvals.

### Guidelines

#### Documents required for certification of telecommunication facilities and devices:

- Copy of producer's test-experiment results;
- Copy of producer's certificate of quality;
- Source certificate;
- Technical passport;
- Copy of corresponding document on tax account by tax authorities;
- Order form;
- Agreement (2 copies).



# Azerbaijan

## Azerbaijan conformity requirements

Category	Regulatory Agency	Regulations
<b>Energy Efficiency</b> 	The Ministry of Energy of The Republic of Azerbaijan	<ul style="list-style-type: none"><li>• There are currently no environmental requirements in Azerbaijan.</li></ul>



## EAEU (Russia, Belarus, Armenia, Kazakhstan and Kyrgyzstan)

### EAEU conformity requirements

Category	Regulatory Agency	Regulations
Electrical safety	Eurasian Economic Commission	<p></p> <ul style="list-style-type: none"> <li>Technical regulations of the EAEU “On safety of low-voltage equipment” (TR 004/2011) came into force from 15 February 2013.</li> <li>EAC Approval is a singular harmonised Approval Certificate for EMC and/or Safety for certain products.</li> <li>It covers all member states in the union.</li> <li>The product must be marked with the EAC Mark.</li> </ul> <p></p> <ul style="list-style-type: none"> <li>There are 2 methods of conformity assessment for electrical products: Certification (CoC) and declaration (DoC). The validity is up to 5 years.</li> </ul>
EMC	Eurasian Economic Commission	<p></p> <ul style="list-style-type: none"> <li>Technical regulations of the EAEU “On Electromagnetic Compatibility of Technical Devices” (TR 020/2011) came into force from 15 February 2013.</li> <li>The validity is up to 5 years.</li> </ul>

### General specifications

Voltage	220V (Single Phase); 380V (Three Phase)
Frequency	50Hz
Manual Language	Russian/English
Plug Type	C/F

### Guidelines

- A local representative is required for CoC or DoC.
- Conformity Assessment includes:**
  - Submission of application, test reports and essential documentation.
  - Factory inspection report.
  - Quality Management System certification (where applicable).
  - The EAC mark should be shown on the product label.

#### **Applicable product categories**

Products with nominal voltage of 50 to 1000 AC and 75 to 1500 DC require EAC Mark.

Products applicable to TR 004/2011:

- Automatic breakers, protective cutout devices
- Cables, wires and cords
- Devices for electric energy distribution
- Electric tools (hand-tools and portable tools)
- Electrical apparatus and household equipment
- Electric musical instruments
- Electrical apparatus for electrotechnical sets control
- Low-voltage equipment connected to electronic data processing machines
- Personal computers

Products applicable to TR 020/2011:

- Electric household appliances and devices
- Electric musical instruments
- Electric tools (hand-tools and portable tools)
- Personal electronic computing machines (personal computers)
- Technical products to be connected to personal electronic computing machines

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

In today's competitive markets, consumers prefer products that complies to all regulations and standards. With TÜV SÜD's conformity verification services, your products will gain a competitive edge in the market.

Our experts apply their knowledge of the latest directives and requirements to ensure compliance and avoid costly, time-consuming rework throughout the process.



## EAEU (Russia, Belarus, Armenia, Kazakhstan and Kyrgyzstan)

### EAEU conformity requirements

Category	Regulatory Agency	Regulations
Energy Efficiency	Eurasian Economic Commission 	<p><b>Energy Efficiency:</b></p> <ul style="list-style-type: none"> <li>• EAEU TR 048/2019 contains requirements for energy efficiency of power consuming devices. These requirements are aimed at ensuring environmental protection and energy efficiency, as well as to prevent actions that mislead consumers regarding energy efficiency of energy-consuming devices.</li> </ul> <p><b>RoHS:</b></p> <ul style="list-style-type: none"> <li>• Technical regulations of the EAEU “Restricting the use of hazardous substances in electronic equipment”</li> <li>• (TR 037/2016) came into force from 1 March 2018.</li> <li>• Form of conformity assessment is the Declaration of Conformity (EAEU RoHS DoC).</li> <li>• Applicable conformity mark - “EAC” mark:</li> </ul> <hr/> <div style="text-align: center;">  </div>

### Applicable product categories

Energy Efficiency:

Development of a draft decision of the EAEU Council, establishing the forms of labels for energy-consuming devices of various types and the rules for their design - 1 March 2022.

The EEC Council decided to postpone EAEU TR 048/2019 to September 1, 2025. Products in scope include:

- Electric asynchronous motors (induction motors)
- Electric fans
- Electric lamps
- Fluorescent lamps without built-in ballasts, high-pressure gas-discharge lamps
- Household and office electrical equipment in standby and off-mode
- Household automatic washing machines

List of products subject to the EAEU TR 037/2016:

1. Electrical apparatus and appliances for domestic use.
2. Electronic computers and devices connected to them, including their combinations.
3. Means of telecommunication (terminal telecommunication devices).
4. Copiers and other electrical office (office) equipment.
5. Electronic tools (manual and portable electric machines).
6. Sources of light and light equipment, including equipment, built into furniture.
7. Electromusical tools.
8. Game and trading automatic machines.
9. Cash registers, ticket printing machines, ID card readers, ATMs, information kiosks.
10. Cables, wires and cords intended for use at a rated voltage of not more than 500 V AC and / or DC, except for fiber optic cables.
11. Automatic switches and residual current devices.
12. Fire, security and fire-security detectors.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with EAEU requirements and obtaining the necessary approval.



# European Union (EU)

## European Economic Area (EEA) countries\*

EU Countries***							EFTA Countries
• Austria	• Czech Republic	• Germany	• Latvia	• Poland	• Spain	• Iceland	
• Belgium	• Denmark	• Greece	• Lithuania	• Portugal	• Sweden	• Liechtenstein	
• Bulgaria	• Estonia	• Hungary	• Luxembourg	• Romania		• Norway	
• Croatia	• Finland	• Ireland	• Malta	• Slovakia		• Switzerland**	
• Cyprus	• France	• Italy	• Netherlands	• Slovenia			

General specifications	
Voltage	230V
Frequency	50Hz
Manual Language	Various languages depending on country
Plug Type	Various types depending on country

\* The EU has a relationship with the EFTA (European Free Trade Association) member countries through the Agreement of the EEA. The EEA enables EFTA to participate in the EU Single Market.

\*\* Although Switzerland is currently not part of EEA, it has a set of bilateral agreements with the EU. Thus, the proof of the overall safety of a product is identical to that of the EU.



# European Union (EU)

## EU conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	European Commission (EC) 	<ul style="list-style-type: none"> <li>CE marking<sup>1</sup>, according to EU Directives, is mandatory.</li> <li>DoC is sufficient but certification is recommended for the marketing.</li> <li>Product safety testing is required.</li> <li>Compliance with European EN standards.</li> </ul>
EMC	EC 	<ul style="list-style-type: none"> <li>CE marking according to EMC Directive.</li> </ul>

<sup>1</sup> CE marking is not a certification, approval or quality mark, but a manufacturer's declaration that the product meets the essential requirements of the respective directives. Most EU Directives require CE marking.

<sup>2</sup> Conformity Assessment Procedure options for products with minimal risk include DoC while products with greater risks may require tests, audits or additional certificates from a Notified Body.

## GUIDELINES



### CE marking procedure:

- Identify the directives that apply to the product. If more than one applies, all must be complied with.
- Determine the extent to which the product complies with the requirements of the applicable directive(s).
- Choose the conformity assessment procedure<sup>2</sup> based on the directive for your product.



# European Union (EU)

## EU conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	EC	<ul style="list-style-type: none"> <li>CE marking according to telecom and wireless directives.</li> <li>DoC is sufficient but certification is recommended for marketing; but where there is lack of harmonised standards, it is necessary for manufacturers to engage a Notified Body<sup>3</sup>.</li> </ul>
Energy Efficiency and Environmental	EC	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>The Energy-related Products (ErP) Directive has repealed the Energy-using Products (EuP) Directive, extending the scope of eco-design requirements to all ErPs.</li> <li>The EC is still reviewing its effectiveness. For product categories with regulations in force, CE marking applies.</li> <li>New energy efficiency labels adopted for 6 product groups. 5 product groups of household appliances with “rescaled” labels. A new labelling product group for refrigerating appliances with a direct sales function used in shops and vending machines. These new labels will be visible for European consumers in physical stores and on-line as of March 1st 2021.</li> </ul> <p><b>RoHS &amp; WEEE:</b></p> <ul style="list-style-type: none"> <li>RoHS is a CE marking directive. Even though WEEE is not a CE marking directive, products must comply with the RoHS and WEEE Directives where applicable. Manufacturers must register compliance in target countries.</li> </ul>

## GUIDELINES

### CE marking procedure:

- Select the applicable product standards and test methods for your product and select an independent laboratory.
- Compile the technical documentation for your product in order to prove that your product is in compliance with the applicable directive.
- Prepare a DoC declaring that the product fulfils the requirements of the applicable directive(s) with the legally binding signature of the manufacturer.
- After certification from the Notified Body has been granted, affix the CE mark to your product. There are specific rules to adhere to in CE marking.

<sup>3</sup> Notified bodies are organisations that have been accredited by EU Member States to serve as independent test laboratories to access whether products meet the requirements of product directives. They must have the necessary qualifications to meet the testing requirements set forth in the directives.

### Applicable product categories

Product categories requiring CE marking include:

- Cableway equipment
- Electrical products
- Gas appliances
- Medical devices
- Telecommunications equipment
- Toys

A full list of product categories may be found at [https://ec.europa.eu/growth/single-market/ce-marking/manufacturers\\_en](https://ec.europa.eu/growth/single-market/ce-marking/manufacturers_en)

Product groups with regulations according to the ErP Directive include:

- Circulators
- Consumer electronics (televisions)
- Electric motors
- External power supplies
- Household refrigerating appliances
- Non-directional household lamps
- Simple set-top boxes
- Standby and off-mode losses
- Tertiary sector lighting

To determine if a particular product is subject to the above regulations, please contact us.

5 product groups of household appliances with “rescaled” labels:

- 1) Dishwashers;
- 2) Electronic displays, including televisions monitors and digital signage displays;
- 3) Lamps;
- 4) Refrigerators, including wine storage fridges;
- 5) Washing machines and washer-driers.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with EU<sup>4</sup> (and individual country) requirements and obtaining the necessary approval.

The TÜV SÜD family is a Notified Body with the expertise and capability to test your product to a large variety of Directives. TÜV SÜD can provide:

- Expert opinions in the compliance of CE marking requirements
- Test reports to support Technical File documentation
- CE marking
- Certification of Conformity<sup>5</sup> for safety, EMC, energy efficiency, RoHS & WEEE and applicable standards



<sup>4</sup> EU Directives are the minimum requirements that manufacturers must meet for products to enter the EU. However, individual country requirements may also be applicable.

<sup>5</sup> In addition to CE marking, which is simply a symbol for trade with the assumption of conformity, TÜV SÜD Marks are a certification of compliance with European (EN) standards.

<sup>6</sup> The GS or Geprüfte Sicherheit (tested safety) mark is a voluntary certification mark applied to finished products that signifies their compliance with all the statutory requirements of the German Product Safety Act.



# Kazakhstan

## Kazakhstan conformity requirements

Category	Regulatory Agency	Regulations
Telecom & wireless	Ministry of Information and Communications	<ul style="list-style-type: none"> <li>Resolution of the Government of the Republic of Kazakhstan dated June 10, 2020 No. 368 canceled the Decision 367 "On mandatory confirmation of conformity of products in the Republic of Kazakhstan".</li> </ul>



## Applicable product categories

To determine if a particular product is subject to any regulations, please contact us.

## TÜV SÜD solutions

TÜV SÜD will continue to monitor if any new certification requirement in Kazakhstan.

## General specifications

Voltage	220V
Frequency	50Hz
Manual Language	Kazakh and Russian
Plug Type	C/F



# Kazakhstan

## Kazakhstan conformity requirements

Category	Regulatory Agency	Regulations
<b>Energy Efficiency</b> 	Ministry of Industry and New Technologies of the Republic of Kazakhstan	<ul style="list-style-type: none"><li>• There are currently no environmental requirements in Kazakhstan.</li></ul>

## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance.



# Moldova

## Moldova conformity requirements

Category	Regulatory Agency	Regulations
Electrical safety	National Accreditation Center of Moldova (MOLDAC) under MEI (Ministry of Economy and Infrastructure)	<ul style="list-style-type: none"> <li>Products subject to conformity assessment in the regulated area, prior to their introduction on the market.</li> <li>The national mark of conformity SM consists of the letters S and M, which stand for "securitatea conform cerințelor esențiale" and "Moldova". The SM mark indicates its compliance with the basic requirements established by the technical regulations of the Republic of Moldova.</li> <li>Both Safety and EMC should be considered for the products.</li> </ul>
EMC		



### Applicable product categories

All equipment rated above 50Vac and below 1000Vac (75Vdc to 1500Vdc) and are liable to cause electromagnetic disturbance, and/or the performance of which is liable to be affected by such disturbance.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approval.

### General specifications

Voltage	220V (Single Phase)
Frequency	50Hz
Manual Language	Moldovan or Russian
Plug Type	C/F

### Guidelines

- Submitting the documents and test reports.
- Evaluation reports and other submitted documents by certification experts.
- Issue of certificate of conformity and marking equipment.



# Moldova

## Moldova conformity requirements

Category	Regulatory Agency	Regulations
Telecom & wireless  	National Accreditation Center of Moldova (MOLDAC) under MEI (Ministry of Economy and Infrastructure)	<ul style="list-style-type: none"> <li>Mandatory certification of ICT products and is provided by the technical regulations document "radio equipment, terminal equipment and recognition of their conformity", approved by Government Decision no. 1274 of 11/23/2007.</li> <li>The type examination certificate which is issued by the certification body (OC TIP) on the basis of test reports and technical documentation can be used as an objective proof that the product has been assessed by the competent notified body of the Republic of Moldova and is a basis for the preparation of the declaration.</li> </ul>



### Applicable product categories

All radio equipment, terminal equipment.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approval.

### Guidelines

- Submitting the documents and test reports.
- Evaluation reports and other submitted documents by certification experts.
- Issue of certificate of conformity and marking equipment.



# Moldova

## Moldova conformity requirements

Category	Regulatory Agency	Regulations
<b>Energy Efficiency</b> 	Energy Efficiency Agency (AEE)	<ul style="list-style-type: none"> <li>Law on energy labeling of energy-related products (Law no. 44 as of 27.03.2014) – is being supported by the Regulation 1003/2014 which establishes a set of labeling requirements.</li> <li>Energy labels are on a scale of A to G, depending on their energy consumption. Class A (green) being the most efficient and class G (red) least effective.</li> </ul>

### Guidelines

- Submitting the documents and test reports.
- Evaluation reports and other submitted documents by certification experts.
- Issue the Energy Label.

### Applicable product categories

- Air conditioners
- Dishwashers
- Electric lamps and luminaires
- Laundry dryers
- Ovens and kitchen hoods
- Refrigerating appliance
- Space heaters
- TV sets
- Vacuum cleaners
- Washing machines
- Water heaters

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approval.



# Serbia

## Serbia conformity requirements

Category	Regulatory Agency	Regulations
Electrical safety	Serbian Ministry of Economy	<p></p> <ul style="list-style-type: none"> <li>Aligned with Low Voltage Directive 2014/35/EU (LVD). Aligned with Electromagnetic Compatibility (EMC).</li> <li>CoC for safety and EMC became voluntary since 1 Jan 2022. Existing CoCs can be kept until expiry date and marking remains the same.</li> </ul>
EMC		<p></p>

### Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approval.

### General specifications

Voltage	230V (Single Phase)
Frequency	50Hz
Manual Language	Serbian Language
Plug Type	C/F



# Serbia

## Serbia conformity requirements

Category	Regulatory Agency	Regulations
Telecom & wireless 	Serbian Ministry of Foreign and Internal Trade and Telecommunications	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>According to the Rulebook on the radio equipment and telecommunications terminal equipment (Official Gazette of RS, no. 11/12), the R&amp;TT equipment should apply for the Certificate of conformity for Serbia.</li> <li>Serbian mark of conformity consists of three uppercase letters A connected in form of equilateral triangle (3A). Together with the 3A mark, the identification number of the Notified Bodies and the last two digits of the year of issuing Certificates of conformity should be placed.</li> </ul> 

### Guidelines

- Submitting the documents and test reports.
- Evaluation reports and other submitted documents by certification experts.
- Issue the Type Approval.

### Applicable product categories

Radio equipment and/or telecommunication terminal equipment.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approval.



# Serbia

## Serbia conformity requirements

Category	Regulatory Agency	Regulations
<b>Energy Efficiency</b> 	The Serbian Ministry of Energy and Mining	<ul style="list-style-type: none"> <li>According to the Article 41 of the Law on Efficient Use of Energy ("Official Gazette of RS", No. 25/13), product in the scope should apply for Energy label before sale in Serbia.</li> </ul>

### Guidelines

- Submitting the documents and test reports.
- Evaluation reports and other submitted documents by certification experts.
- Issue the Energy Efficiency Label.

### Applicable product categories

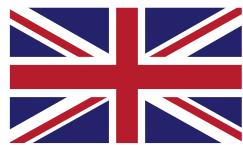
Product categories that require mandatory labelling include:

- Air conditioning devices
- Cooling devices with direct sales
- Dishwashers
- Dryer with household drum
- Electronic screens
- Household cooling devices (electric refrigerators, freezers and their combinations)
- Light sources
- Ovens and household nappies
- Space heaters, combined heaters, space heater kits, regulation equipment temperature and solar appliances, combined heater kits, regulation equipment temperature and solar appliance
- Washing machines
- Water heaters, hot water tanks and water heater kits and solar appliances

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approval.



# United Kingdom

## United Kingdom conformity requirements

Category	Regulatory Agency	Regulations
Electrical safety	UK Conformity Assessed marking (UKCA)	<p></p> <ul style="list-style-type: none"> <li>UKCA marking is the UK product marking requirement that will be needed for products being placed on the market in Great Britain (England, Scotland and Wales), substituting the EU requirements for CE Marking. UKCA marking will indicate that a product placed on the United Kingdom market meets the UKCA Marking requirements.</li> <li>UKCA marking was specified in the original ‘EU Exit’ UK Statutory Instruments, and for most products this is defined in UK Statutory Instrument 2019. No. 696 and amendments (exceptions being Automotive, Marine and Medical devices for example)</li> <li>The UKCA marking came into effect on 1 January 2021.*</li> </ul>
EMC		<p></p>

**UK  
CA**

### General specifications

Voltage	230V (Single Phase)
Frequency	50Hz
Manual Language	English
Plug Type	G

### Guidelines

- UKCA Assessment required based on EU TEC.
- Complete Technical Assessment required through UK Accredited Body.
- No assessment required – Manufacturer prepares the UK DoC.

### Applicable product categories

UKCA Mark covers most products that previously required the CE marking.  
To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

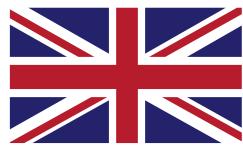
BABT was formally appointed as UK approved body (Number 0168) and started certification work on the 1st Jan 2021 for the following types of products:

- Electromagnetic Compatibility Regulations 2016
- Marine Equipment Regulations 2016
- Supply of Machinery (Safety) Regulations 2008

TÜV SÜD America was appointed as UKCA body (Number 1929) under the UK/US Mutual Recognition Agreement for EMC and RED.

Directives such as Low Voltage Directive (LVD) will remain self-declaration under UKCA. We are still able to offer voluntary Attestations of Conformity (AoC) to support the manufacturers self declaration in this area.

**Remark:** \* You can continue to use the CE marking and reversed epsilon marking on the GB market until 31 December 2024.



# United Kingdom

## United Kingdom conformity requirements

Category	Regulatory Agency	Regulations
Telecom & wireless	UK Conformity Assessed marking (UKCA)	<ul style="list-style-type: none"> <li>The Radio Equipment Regulations 2017, are the UK's equivalent of the European Radio Equipment Directive 2014/53/EU.</li> <li>Products and equipment that conform to the requirements of the Regulations should carry a UKCA Mark, supported by a valid UK Declaration of Conformity.</li> <li>The UKCA marking came into effect on 1 January 2021.*</li> </ul> 

### Guidelines

- UKCA Assessment required based on EU TEC.
- Complete Technical Assessment required through UK Accredited Body.
- No assessment required – Manufacturer prepares the UK DoC.

### Applicable product categories

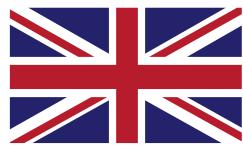
Radio equipment.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD BABT was formally appointed as UK approved body (Number 0168) and started certification work on the 1st Jan 2021 for the Radio Equipment Regulations 2017. TÜV SÜD America was appointed as UKCA body (Number 1929) under the UK/US Mutual Recognition Agreement for EMC and RED.

**Remark:** \* You can continue to use the CE marking and reversed epsilon marking on the GB market until 31 December 2024.



# United Kingdom

## United Kingdom conformity requirements

Category	Regulatory Agency	Regulations
Energy Efficiency	UK Conformity Assessed marking (UKCA) 	<p><b>Ecodesign:</b></p> <ul style="list-style-type: none"> <li>The Ecodesign for Energy-Related Products Regulations 2010 (as amended) are the underpinning legislation.</li> </ul> <p><b>Energy Information:</b></p> <ul style="list-style-type: none"> <li>The Energy Information Regulations 2011 (as amended) are the underpinning legislation.</li> </ul> <p><b>RoHS:</b></p> <ul style="list-style-type: none"> <li>The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (as amended) are the underpinning legislation.</li> <li>Manufacturers placing EEE on the market in Great Britain and/or Northern Ireland must evaluate their production controls to ensure that their products do not exceed the maximum prescribed levels of the following hazardous substances: <ul style="list-style-type: none"> <li>cadmium</li> <li>lead</li> <li>mercury</li> <li>hexavalent chromium</li> <li>polybrominated biphenyls</li> <li>polybrominated diphenyl ethers</li> <li>bis(2-ethylhexyl) phthalate</li> <li>benzyl butyl phthalate</li> <li>dibutyl phthalate</li> <li>diisobutyl phthalate</li> </ul> </li> </ul>

## GUIDELINES

### Ecodesign:

- A Declaration of Conformity must be completed, supported by technical documentation to demonstrate compliance.

### RoHS:

- A Declaration of Conformity must be completed, supported by technical documentation to demonstrate compliance, retained for 10 years after the last product is first placed on the market and be made available to OPSS on request.

#### **Applicable product categories**

The regulations cover the following energy related products for Ecodesign:

- Circulators
- Computers
- Dishwashers
- Domestic ovens, hobs and range hoods
- Electric motors
- Fans
- Heating and cooling appliances
- Lamps (directional and LED)
- Lamps (non-directional)
- Lamps (fluorescent and professional)
- Power supplies

The regulations cover the following energy related products for Energy Information:

- Air conditioners
- Dishwashers
- Fridges and freezers
- Light sources
- Local space heaters
- Ovens
- Range hoods
- Refrigerated storage cabinets for professional use
- Refrigeration with a direct sales function
- Solid fuel boilers
- Space heaters
- Etc.

RoHS:

The regulations cover all EEE, cables and spare parts with some exemptions.

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approval.



# Uzbekistan

## Uzbekistan conformity requirements

Category	Regulatory Agency	Regulations
Electrical safety	Ministry of Certification and Standardisation of the Republic of Uzbekistan 	<ul style="list-style-type: none"> <li>The Order on Approving Rules for Product Certification came into effect from 28 March 2005. The rules establish common requirements for certification of produced and imported products in the National Certification System of Uzbekistan. It sets out provisions on certification procedure, application certification schemes, recognition of foreign certificates of conformity.</li> <li>Product should bear the mark after certificate issue.</li> </ul> 
EMC		

### Applicable product categories

Electrical goods and household appliances.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approval.

### General specifications

Voltage	220V (Single Phase)
Frequency	50Hz
Manual Language	Uzbek language
Plug Type	C/I

### Guidelines

- Submitting the documents and test reports with CE standard.
- Evaluation reports and other submitted documents by certification experts.
- Issue the Certificate.



# Uzbekistan

## Uzbekistan conformity requirements

Category	Regulatory Agency	Regulations
Telecom & wireless 	Ministry of Development of Information Technologies and Communications (MITC)	<ul style="list-style-type: none"> <li>Licensing of the activities of legal entities in the telecommunications sector is carried out by the Ministry of Information Technology and Communications Development of the Republic of Uzbekistan in accordance with the "Telecommunications Licensing Regulation" approved by the Cabinet of Ministers' Resolution of 22.11.2000 No. 458 "On measures to improve the management system in telecommunications and postal communication."</li> <li>All importers and manufacturers of mobile phone devices (including those imported for personal use) must register them in the special database.</li> </ul>

### Guidelines

- Submitting the documents and test reports.
- Evaluation reports and other submitted documents by certification experts.
- Issue the Type Approval.

### Applicable product categories

Electrical goods and household appliances.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approval.



# Uzbekistan

## Uzbekistan conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS	GUIDELINES
<b>Energy Efficiency</b> 	Standardization, Metrology and Certification Agency of Uzbekistan	<ul style="list-style-type: none"> <li>Decree No. 86 of 9 April 2015 on Implementing of Mandatory Energy Efficiency Labelling for Domestic Electrical Devices and Appliances and Newly Built Buildings and Structures in Uzbekistan.</li> <li>Energy efficiency class of domestic appliances is indicated by a capital Latin letter: «A», «B», «C», «D», «E», «F», «G» (where “A” is the highest level of energy efficiency). There are additional categories: «A+», «A++» and above (ascending energy efficiency level).</li> </ul>	<p><b>GUIDELINES</b></p> <ul style="list-style-type: none"> <li>Submitting the documents and test reports.</li> <li>Evaluation reports and other submitted documents by certification experts.</li> <li>Issue the Energy Efficiency Label.</li> </ul>

### Applicable product categories

Product categories that require mandatory labelling include:

- Air conditioning equipment
- Central heating boilers
- Dishwashers
- Electrical ovens
- Household electromechanical machines with a built-in electric motor
- Lamps and lighting equipment
- Light emitting diodes (LEDs), including laser diodes
- Microwave ovens
- Monitors
- Other devices intended for use with incandescent lamps
- Ovens
- Refrigerators
- Storage water heaters, hoods or extractors
- Televisions
- Vacuum cleaners
- Washing machines
- Water heaters

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approval.



# Argentina

## Argentina conformity requirements

Category	Regulatory Agency	Regulations
Electrical safety	Instituto Argentino de Normalización y Certificación (IRAM)  	<ul style="list-style-type: none"> <li>According to Resolution M.P. S.C. N ° 169/2018 and its resolutions and supplementary provisions, to be traded in Argentina, electrical and electronic low voltage equipment must have a certificate that proves that they meet the essential safety requirements.</li> <li>The mandatory S-Mark signifies that a product has been certified by an organisation accredited and authorised by the authorities.</li> </ul>  <ul style="list-style-type: none"> <li>Compliance with IEC standards.</li> </ul>

### General specifications

Voltage	220V (Single Phase); 380V (Three Phase)
Frequency	50Hz
Manual Language	Spanish
Plug Type	I

### GUIDELINES

- Manufacturers need to apply to IRAM and submit essential documents for safety approval.
- Testing should be conducted to IEC standards for electrical and electronics equipment.
- Initial and subsequent annual factory inspections are required for safety certification.

### Applicable product categories

All devices, apparatus or electrical materials intended to be used by consumers rated between 50V and 1000Vac or 1500Vdc require mandatory certification.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Argentine requirements and obtaining the necessary approval.

TÜV SÜD can provide CB test reports that are accepted for safety approval through its MOU with IRAM.



# Argentina

## Argentina conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Ente Nacional de Comunicaciones (ENACOM)	<ul style="list-style-type: none"> <li>Testing and approval is required for most telecommunication line terminal equipment and radio frequency equipment.</li> <li>Approval may be in 2 forms – Homologación (approval to Argentine standards) or Codificación (accepted approval for which no standard exists).</li> <li>Testing of equipment must be performed by accredited in-country test laboratories.*</li> <li>Approved telecommunication equipment is registered in the Registry of Activities and Materials of Telecommunications (RAMATEL). After the approval process, the information of the importers and their homologated/codified products will be automatically transferred to the RAMATEL Registry, controlled by the ENACOM.</li> <li>Product should bear RAMATEL ID after type approved.</li> </ul>



## GUIDELINES

- A local representative is required.
- The Argentine importer or distributor must be registered with ENACOM in order to obtain certification.
- Approved equipment will be listed on the ENACOM website.

#### **Applicable product categories**

Approval is required for:

- All terminal equipment connected to the public telephone network
- Low-power spread-spectrum products operating in the 2.4–2.4835 GHz band
- Most radio equipment

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Argentine requirements and obtaining the necessary approval.

- \*  
1. Although foreign test reports are not accepted, they may speed up the approval process.  
2. ENACOM issued resolution 2/2022 that effective February 28<sup>th</sup> all WWAN devices must be tested locally.



# Argentina

## Argentina conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS	GUIDELINES
Energy Efficiency 	National Directorate for Technical Regulations	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>To be marketed in Argentina, household appliances within the scope of Resolution 319/99 must include a label stating their energy consumption level, to be determined using test methods indicated in the applicable IRAM standard.</li> </ul>	<ul style="list-style-type: none"> <li>The law requires the information to be provided in a brochure, which must be included with the instruction manual.</li> <li>Efficiency is rated from A to G, with A being the most efficient.</li> </ul>

### Applicable product categories

Product categories that require mandatory labelling include:

- Air-conditioners
- Ballasts
- CFL lamps
- Dishwashers
- Electric Storage Water Heaters
- Freezers
- Halogenlamps
- LED lamp
- Microwave ovens
- Motors
- Refrigerators
- TV
- Washing machines
- Water pumps

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Argentine requirements and obtaining the necessary approval. TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.



# Brazil

## Brazil conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	National Institute of Metrology, Standardisation and Industrial Quality (INMETRO)  	<ul style="list-style-type: none"> <li>Mandatory testing and certification is required for certain regulated product categories.</li> <li>Testing must be performed by a Product Certification Body that is accredited by INMETRO.</li> <li>Initial and follow-up factory inspections are required for mandatory certification.</li> <li>Products certified by an INMETRO-accredited body are required to carry the mandatory INMETRO Mark of the certification organisation.</li> <li>Compliance with ABNT, NBR, NM and/or IEC Standards is also required.</li> <li>Products must be marked with the INMETRO Mark.</li> </ul> 

### General specifications

Voltage	127V / 220V (Single Phase); 220V / 380V (Three Phase)
Frequency	60Hz
Manual Language	Portuguese
Plug Type	C/N

### GUIDELINES

- The INMETRO Mark can be applied to products under mandatory certification lists.

**Test reports from INMETRO accredited labs and/or accredited bodies can be accepted:**

- Inter-American Accreditation Cooperation - IAAC.
- European Cooperation for Accreditation - EA.
- International Laboratory Accreditation Cooperation - ILAC.

#### **Applicable product categories**

Product categories that require mandatory certification include:

- Circuit breakers
- Compact Fluorescent Lamps with integral ballast
- Electrical medical equipment
- Electronic ballasts for fluorescent lights
- Equipment for gas systems
- Explosive atmosphere equipment
- Household and similar electric appliances
- Plugs and sockets
- Street lighting using discharge lamps and LED technology
- Switches
- Voltage stabilisers
- Wires and cables

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Brazilian requirements and obtaining the necessary approval.

TÜV SÜD do Brasil has been approved by Brazil's main national accreditation body, INMETRO (National Institute of Metrology, Quality and Technology), as a Certification Body for household appliances.



# Brazil

## Brazil conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Agência Nacional de Telecomunicações (ANATEL)  	<ul style="list-style-type: none"> <li>Approval is required for most telecommunications and wireless equipment.</li> <li>CoC issued by designated CB (OCD) is required for imports, and ANATEL certification is required for the commercialisation and sale of products.</li> <li>Modular approval is accepted for RF.</li> <li>Testing must be performed by accredited in-country test laboratories.</li> <li>According to Act No 4088/2020, products must be marked with the ANATEL Mark.</li> </ul> <p> HHHHH-AA-FFFFF</p> <ul style="list-style-type: none"> <li>ANATEL's homologation safety seal should be applied for lithium batteries and chargers used in mobile phones.</li> </ul> <p></p>

## GUIDELINES

- A local representative is required.
- Conformity assessment to Brazilian standards is required to be performed by accredited CABs.
- Approval requirements may differ depending on which 1 of the 3 categories the equipment is assigned to.
- Type examination, product quality assurance, and total quality assurance procedures may be performed.

**Applicable product categories**

Approval is required for:

- All DLL (E1, E3, etc.) equipment
- All equipment connecting to the Integrated Services Digital Network (ISDN)
- All network equipment
- All optical interfaces
- All telecommunication terminal equipment
- A wide range of radio products

To determine if a particular product is subject to the above regulations, please contact us.

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Brazilian requirements and obtaining the necessary approval.



# Brazil

## Brazil conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS	GUIDELINES
Energy Efficiency 	National Institute of Metrology, Standardisation and Industrial Quality (INMETRO)	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>Minimum Energy Performance Standards (MEPS) are required for some products.</li> <li>Mandatory energy efficiency labelling is required for certain products.</li> </ul>	<p>• PROCEL is the national energy efficiency program and INMETRO is responsible for verifying manufacturers' data.</p>

### Applicable product categories

Product categories that require mandatory labelling include:

- Air conditioners
- Ceiling fans
- Centrifugal pumps
- Clothes washers
- Column and air circulators
- Commercial electric ovens
- Compact fluorescent lamps
- Electric water heating
- Electromagnetic ballasts for high pressure sodium vapour lamps
- Systems and equipment for photovoltaics
- Fan tables
- Freezers
- Gas stoves and furnaces
- Gas water heaters
- High pressure sodium vapour lamps
- Incandescent lamps for domestic use
- Microwave ovens
- Refrigerators
- Three-phase induction motors squirrel cage rotor
- Televisions sets

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Brazilian requirements and obtaining the necessary approval. TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.



# Canada

## Canada conformity requirements

Category	Regulatory Agency	Regulations
Electrical safety	Standards Council of Canada (SCC)	<ul style="list-style-type: none"> <li>Certification must be obtained from an SCC accredited CB.</li> <li>Safety testing is mandatory and factory inspections are required, where applicable.</li> <li>Compliance with CSA, UL and/or IEC standards.</li> </ul>



### General specifications

Voltage	120V (Single Phase); 208V / 240V / 600V (Three Phase)
Frequency	60Hz
Manual Language	English/French
Plug Type	A/B

### GUIDELINES

- Although certification is not mandatory, it is highly recommended for marketing purposes and provides state-level authorities a sound basis for product evaluation.
- Certified products has the mark of the SCC accredited CB.

### Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Canada requirements and obtaining the necessary approval.

As a SCC accredited CB, TÜV SÜD can provide electrical safety certification, with the TÜV SÜD NRTL mark, for a range of products including:

- Electrical drives
- Industrial control systems
- IT equipment
- Laboratory equipment
- Laser
- Power supplies





## Canada conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless 	Innovation, Science, and Economic Development Canada (ISED)	<ul style="list-style-type: none"> <li>Conformity assessment is subject to the DoC process.</li> <li>The testing and certification of Radio Apparatus by a recognised CB is required.</li> </ul>
EMC 	Innovation, Science, and Economic Development Canada (ISED)	<ul style="list-style-type: none"> <li>Manufacturers' declaration is required for certain products according to ICES standards.</li> </ul>

### Applicable product categories

A full list of applicable telecom equipment may be found at [www.ic.gc.ca/eic/site/ceb-bhst.nsf/eng/h\\_tt00046.html](http://www.ic.gc.ca/eic/site/ceb-bhst.nsf/eng/h_tt00046.html)

A full list of applicable radio equipment may be found at [www.ic.gc.ca/eic/site/ceb-bhst.nsf/eng/h\\_tt00061.html](http://www.ic.gc.ca/eic/site/ceb-bhst.nsf/eng/h_tt00061.html)

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Canada requirements and obtaining the necessary approval.

TÜV SÜD is a Foreign CB, appointed under the EU-Canada MRA, to issue ISED Type Acceptance Certificates for all Radio equipment in the Category 1 equipment list..

### GUIDELINES

- A local representative is required.

#### DoC procedure:

- Test the equipment to verify compliance at an accredited test laboratory.
- Keep a compliance folder on file.
- Affix the equipment with the ISED Company Number and ISED Registration Number as stated in the requirements.
- Register the equipment with the Bureau through E-filing and add the equipment to ISED's Terminal Equipment List.

#### Certification procedure:

- Manufacturers must use an ISED recognised CB.
- Certified equipment should be labelled in accordance with ISED labelling requirements.



## Canada conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Energy Efficiency and Environmental	National Resources Canada (NRCan)	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>The Energy Efficiency Regulations are required for many products.</li> <li>Mandatory EnerGuide Program labelling is required for certain products.</li> <li>A lighting product label should be considered for certain product.</li> </ul> <p><b>WEEE:</b></p> <ul style="list-style-type: none"> <li>Manufacturer's declaration to WEEE programs per province.</li> </ul>

### GUIDELINES

- Canada's EnerGuide labelling requirements are coordinated with the US EnergyGuide labelling program.

### **Applicable product categories**

Product categories that require mandatory EnerGuide labelling include:

- Clothes dryers
- Clothes washers
- Dishwashers
- Electric Ranges
- Freezers
- Integrated over/under washer-dryers
- Refrigerators and combination refrigerator-freezers
- Room air conditioners

Product categories that require a lighting product label include:

- CFLs
- General service lamps (common light bulbs) and modified spectrum incandescent lamps
- General service incandescent reflector lamps: PAR, R, ER, BR and BPAR lamps

A full list of Energy Efficiency Regulation product categories may be found at [www.nrcan.gc.ca/energy/regulations-codes-standards/6859#a1](http://www.nrcan.gc.ca/energy/regulations-codes-standards/6859#a1)

To determine if a particular product is subject to the above regulations, please contact us.

### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Canadian requirements and obtaining the necessary approval.

\* The EnerGuide label is voluntary for:

- Central air conditioners
- Furnaces (oil-, gas- or propane-fired)
- Gas fireplaces
- Heat pumps - air source
- Water heaters



# Chile

## Chile conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Superintendencia de Electricidad y Combustibles (SEC)	<ul style="list-style-type: none"> <li>Certification is mandatory for electrical products designated by the SEC according to the 298/2005 Supreme Decree.</li> <li>The SEC QR Code is the mandatory Chilean mark to be used and labeled on certified products.</li> </ul> 



### General specifications

Voltage	220V (Single Phase)
Frequency	50Hz
Manual Language	Spanish
Plug Type	C/L

### GUIDELINES

- Local representative is required for SEC approval.
- DoC procedure:**
- Submission of application, test reports and essential documents.
  - Review by SEC.
  - Obtain Certification.
  - Product labelling.

### Applicable product categories

Product categories that require mandatory SEC QR Code include:

- Air conditioners
- Audio systems
- Blu-Ray players
- Circuit Breakers
- Commercial refrigerators
- Differential Switches without Over-current Protection
- Dish washer
- Domestic Heaters
- Drum type dryer
- Dryers
- DVD players
- Electric stoves, Kitchens, Cooking grills
- Hand dryers
- Heat pumps
- Home theaters
- Household liquid heating appliances
- Household refrigerators
- Installation materials
- Kitchen hood
- Kitchen machines for domestic use
- Lighting
- Lighting chains, external power sources, tablet chargers
- Microwave Oven
- Motors
- Oven convection
- Ovens
- Printers
- Switches
- Tools
- TVs
- Washing machines, washing machine with tumble dryer
- Water heaters
- Wires, cables

### TÜV SÜD solutions

Our global network of interdisciplinary experts works to provide you the specialized support you need to gain SEC safety approval and energy efficiency certification for your electrical products.



# Chile

## Chile conformity requirements

Category	Regulatory Agency	Regulations	Guidelines
Telecom & wireless	Subsecretaría de Telecomunicaciones (SUBTEL)  	<ul style="list-style-type: none"> <li>SUBTEL (Subsecretaria de Telecomunicaciones) is the telecommunications regulating agency in Chile.</li> <li>Regulated according to the SUBTEL 1985/2017 Regulation, products that utilize Radiofrequency, Cellular, or Satellite technology require approval and certification to be commercialized in Chile.</li> </ul>	<p><b>GUIDELINES</b></p> <ul style="list-style-type: none"> <li>Submit the application form.</li> <li>* Test report with FCC or CE standard accepted.</li> <li>Type Approval issued by SUBTEL.</li> <li>No labelling requirement for wireless device.</li> <li>SAR statement required if the equipment with SAR requirement.</li> <li>SUBTEL and certification number must be on the label for analogue telephones and printers.</li> </ul>

### Applicable product categories

#### Product Scope:

Portable transceivers, Remote radio controls, Wireless microphones, Wireless telephones, including some DECT systems, RFID equipment, Radio alarms, Communication systems for medical implantation, Other equipment used for medical applications, Equipment used as radar systems in vehicles, Zigbee devices.

#### TÜV SÜD solutions

Our experienced team of experts precisely coordinates the successful certification of your products according to the SUBTEL mandate.

\* In-country testing required for telecom equipment connect to the telecommunications network, such as analogue telephones or fax machines.



# Chile

## Chile conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Energy Efficiency	Superintendencia de Electricidad y Combustibles (SEC);  	<ul style="list-style-type: none"> <li>Chile established their energy labelling programme in 2005 and Chile Proposes Technical Specifications for certain products.</li> <li>The Energy label is the mandatory mark to be used and labeled on certified products.</li> </ul> 

## GUIDELINES

Local representative is required for Chile Energy Efficiency approval

### Procedure:

- Submission of application, test reports and essential documents.
- Review by SEC.
- Obtain Certification.
- Product labelling.

## Applicable product categories

### Product Scope:

- Air conditioners
- Audio systems
- Ballasts
- Blu-Ray players
- Dichroic lamps
- Dishwashers
- DVD players
- Electric Ovens
- Halogen lamps
- Home theaters
- Incandescent lamps
- Interior lighting products

- Microwave Ovens
- Motors
- Printers
- Refrigerators, Freezers
- Self-ballasted fluorescent lamps
- Self-ballasted LED lamps

- Set top boxes
- Single cap fluorescent lamps
- TVs
- Two caps fluorescent lamps
- Washing Machines, dryers
- Water heaters

## TÜV SÜD solutions

Our experienced team of experts precisely coordinates the successful certification of your products according to the Chile Energy Efficiency mandate.



# Colombia

## Colombia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	The National Accreditation Body of Colombia (ONAC) 	<ul style="list-style-type: none"> <li>RETILAP (Technical Regulation of Lighting and Public Lighting): The fundamental objective of this regulation is to establish the requirements that must be met by residential and public lighting systems, aiming at consumer safety, prevention of the environment, and minimizing the risks caused by installations and use of lighting systems.</li> <li>Resolution NO. 0721 came into force on Dec. 19, 2019, which applies to all zinc-carbon and alkaline batteries except the rechargeable batteries, button cell batteries, and batteries entered as non-commercial samples.</li> <li>RETIE(Technical Regulation for Electrical Installations): the objectives are to guarantee the safety for electrical installations in Colombia</li> </ul>

### Applicable product categories

RETIE approval: Electrical components;

RETILAP approval: Lighting products

### TÜV SÜD solutions

Being one of the leaders in the market of conformity verification services, we are eager to offer you, as our customers, the most beneficial terms of services.

## General specifications

Voltage	110V (Single Phase)
Frequency	60Hz
Manual Language	Spanish
Plug Type	A/B

## GUIDELINES

RETILAP and RETIE can be achieved in accordance with four optional certification schemes (based on ISO/IEC 17067 standard):

- Scheme Type 1a: Type testing (valid for the tested product only).
- Scheme Type 1b: Type testing (product sample from a production batch).
- Scheme Type 4: Type testing (product sample), factory inspection and surveillance (periodical testing and factory inspection).
- Scheme Type 5: Type testing (product sample), management system audit (production process) and surveillance (periodical testing and audit).



# Colombia

## Colombia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Communications Regulatory Committee (CRC)	<ul style="list-style-type: none"> <li>Resolution 087 of 1997 establishes the general conditions of homologation of terminal equipment.</li> <li>The Comision de Regulacion de Comunicaciones (CRC) is the telecom regulatory commission of Colombia, which has voluntary approvals for all telecom equipment except for products that have voice communication functions, such as mobile phones, and for specific types of satellite communication products.</li> </ul>

## GUIDELINES

### Type approval procedure:

- Submission of application to CRC.
- FCC grants and reports, or CE RED reports, can be used to obtain the type approvals for these regulated devices.
- Issuance of type approval.

## Applicable product categories

Mandatory approvals are only required for fixed network terminals, mobile(radio)terminals and satellite terminal devices.

All other products can simply obtain a “Letter of Voluntary Approval” from the CRC, in which they state that the product is exempt from type approval requirements, and may be imported and sold in Colombia.

## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Colombian requirements and obtaining the necessary approval.



# Colombia

## Colombia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency</b>	Ministry of Mines and Energy (MINMINAS) 	<ul style="list-style-type: none"> <li>• RETIQ (Technical Regulations for Labeling End-Use Electrical and Fuel Gas Equipment): Energy Efficiency Technical Regulation – Resolution 41012.</li> <li>• RETIQ is technical regulation of labelling, regulations seeking to promote the rational and efficient use of energy in products that use electricity and combustible gas, through the establishment and mandatory use of labels to report on the performance of the teams in terms of energy consumption and efficiency indicators.</li> </ul>

### Applicable product categories

Mandatory energy efficiency labeling is required for the following product categories:

- Air conditioners
- Commercial refrigerators
- Electric water heaters
- Household electric washing machines
- Household refrigerators
- Single phase induction motors
- Three-phase induction motors

### TÜV SÜD solutions

Being one of the leaders in the market of conformity verification services, we are eager to offer you, as our customers, the most beneficial terms of services.

### GUIDELINES

- Prove the compliance with RETIQ through obtaining a Certificate of conformity or, in permitted cases, issuing Supplier's Declaration of Conformity and labeling of product.
- Register a product in the Registry of Manufacturers and Importers of Products or provide a license to the Ministry of Commerce, Industry, and Tourism through the one-stop foreign trade window ("VUCE") for the imported products that are subject to technical regulation and require only a certificate of conformity.
- Report to the surveillance authority: a name of a manufacturer or an importer and its legal representative or agent, which is Colombian resident, and an address for notifications, as well as any additional information determined by the regulators of the product.



# Ecuador

## Ecuador conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Electrical safety</b>	Instituto Ecuatoriano de Normalización (INEN)	<ul style="list-style-type: none"> <li>The imported products under mandatory Ecuadorian Technical Regulations (Reglamentos Técnicos Ecuatorianos) shall demonstrate their compliance through a Recognition Certificate issued by the local authority INEN (Instituto Ecuatoriano de Normalización) for product import and commercialization.</li> </ul>
	Organismo de Acreditación Ecuatoriano (OAE)	

### Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

Being one of the leaders in the market of conformity verification services, we are eager to offer you, as our customers, the most beneficial terms of services.

### General specifications

<b>Voltage</b>	110V (Single Phase)
<b>Frequency</b>	60Hz
<b>Manual Language</b>	Spanish
<b>Plug Type</b>	A/B

### GUIDELINES

- Before product commercialization the importers shall register the Recognition Certificates in the Quality Department of the Ministry of Industry and Productivity of Ecuador
- Submit the application
- Test in the INEN accredited lab
- After the OAE accreditation verification the technical documents shall be submitted by the importer to INEN.



# Ecuador

## Ecuador conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless 	Agency for the Regulation and Control of Telecommunications (ARCOTEL)	<ul style="list-style-type: none"> <li>The ARCOTEL is the “Agency for the Regulation and Control of Telecommunications” and is the telecom authority in Ecuador.</li> <li>Wireless products, telecommunication terminal equipment, cellular, satellite, and other PSTN equipment require approval and certification in Ecuador prior to importation and commercialization.</li> </ul>

## GUIDELINES

### Type approval procedure:

- Submission of application to ARCOTEL.
- Testing in accredited lab and proof of compliance can be shown through other national approvals, such as an FCC grant and report, or EU certificate along with the associated test reports.
- Issuance of type approval.

## Applicable product categories

For any type of radio communications product which has an output transmit power higher than 50 mW EIRP, ARCOTEL certifications is mandatory.

## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Ecuadorian requirements and obtaining the necessary approval.



# Ecuador

## Ecuador conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency</b>	Instituto Ecuatoriano de Normalización (INEN)	<ul style="list-style-type: none"> <li>Energy efficiency label is mandatory for certain products in Ecuador.</li> <li>The Technical Regulation establishes the energy efficiency requirements necessary to classify electric products according to their energy consumption.</li> </ul>
	Organismo de Acreditación Ecuatoriano (OAE)	
	Ecuadorian Ministry of Industry and Productivity (MIPRO)	

## GUIDELINES

### Energy Label procedure:

- Submit the application.
- Test in the INEN accredited lab.
- Issuance of energy label.

## Applicable product categories

Mandatory energy efficiency labeling is required for the following product categories:

- Air conditioners
- Clothes washers
- Dishwashers
- Electric fans
- Electric ovens
- Freezers
- Induction cooking
- Pumps
- Refrigerators
- Street lights
- Televisions
- Etc.

## TÜV SÜD solutions

Being one of the leaders in the market of conformity verification services, we are eager to offer you, as our customers, the most beneficial terms of services.



# Mexico

## Mexico conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Secretariat of Commerce and Industrial Promotion (SECOFI)	<ul style="list-style-type: none"> <li>Manufacturers are required to obtain NOM Certification for regulated products.</li> </ul> <p><b>NOM</b></p> <ul style="list-style-type: none"> <li>All electrical products, domestic or imported, must meet NOM requirements.</li> <li>Testing must be performed by an accredited Mexican testing agency or a laboratory outside of Mexico that has a MRA with an accredited Mexican laboratory.</li> <li>The CBs in Mexico that administer NOM certification are NYCE and ANCE.</li> <li>Compliance with NOM standards.</li> <li>All safety NOMs will have to be updated to include the HS Code of the product.</li> </ul>

### Applicable product categories

The NOM certificate applies to over 2000 product categories from electronics to household appliances.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Mexican requirements and obtaining the necessary approval.

### General specifications

Voltage	127V (Single Phase); 220V / 480V (Three Phase)
Frequency	60Hz
Manual Language	Spanish
Plug Type	A/B

### GUIDELINES

- A local representative is required.
- Essential documentation has to be submitted to the CB for certification.
- Post-market surveillance after obtaining certification is required.



# Mexico

## Mexico conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Federal Institute of Telecommunication (IFT)	<p></p> <ul style="list-style-type: none"> <li>All products that use a frequency to transmit and/or receive signals and all telecom products that connect to the PSTN or public network must be certified by IFT.</li> <li>Each Approved product must have a physical or electronic marking or labeling, which must contain at least the following: <ul style="list-style-type: none"> <li>The number of the current Approval Certificate.</li> <li>The Certificate of Approval number must be preceded by the prefix „IFT“ in capital letters on a single line and must be legible without the aid of magnification.</li> </ul> </li> </ul> <div style="text-align: center;">  </div>

### GUIDELINES

- A local representative is required.
- In-country testing is performed in EMA accredited laboratories.
- Two samples of the following are required: Cables, power source, movable antenna, amplifier, testing software including procedures, technical specifications, installation and operation manuals.
- Certification of a family of models is not allowed. Testing, certification and registration is required for each product and model.

### Applicable product categories

Approval is required for:

- All telecommunication equipments including wireless products

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Mexican requirements and obtaining the necessary approval.



## Mexico conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Energy Efficiency 	The National Commission For the Efficient use of Energy (CONUEE)	<p><b>Energy Consumption:</b></p> <ul style="list-style-type: none"> <li>CONUEE approved the catalogue of equipment and devices in relation to which manufacturers, importers, distributors and retailers must provide energy consumption information in 2017. The information included must be in a clear and concise manner and must consist of:           <ul style="list-style-type: none"> <li>Unit of energy consumption for operating time;</li> <li>Type of energy or energy used in units of measurement unless, due to the nature of the product, the type of energy is clearly identifiable;</li> <li>Quantity of the good, product or service of the equipment per unit of energy consumed where applicable.</li> </ul> </li> </ul> <p><b>Maximum Limits of Electrical Power:</b></p> <ul style="list-style-type: none"> <li>After 20 September 2014, all devices covered by the NOM-032-ENER-2013 will start to be certified in accordance with the NOM.</li> </ul>

### GUIDELINES

- Products are rated based on the percentage of energy savings relative to the energy consumption, or maximum limits of electrical power according to NOM standards.

#### **Applicable product categories**

Energy consumption information must be provided for these equipment and appliances:

- Amplifier
- Boiler
- Commercial/domestic coffee machine
- Industrial washer center
- Industrial water pump
- Mixer, etc.

Product categories that require mandatory maximum limits of electrical power:

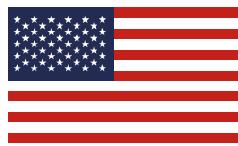
- Audio playback equipment
- Digital TV adapters
- Image reproduction equipment, including printers, scanners, fax machines, copiers and multifunctionals
- Microwave ovens
- Television set-top boxes
- Televisions
- Video or home theater equipment in DVD or Blu-ray formats

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Mexican requirements and obtaining the necessary approval.

TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.



# United States of America (USA)

## USA conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Occupational Safety and Health Administration (OSHA) 	<ul style="list-style-type: none"> <li>Safety standards require testing and certification of products through an OSHA recognised Nationally Recognized Test Laboratory (NRTL).</li> <li>Factory inspections are required, where applicable.</li> <li>Compliance with CSA, UL and/or IEC standards.</li> </ul>

## Applicable product categories

A full list of product categories may be found at [www.osha.gov/dts/otpca/nrtl/prodcatg.html](http://www.osha.gov/dts/otpca/nrtl/prodcatg.html)  
To determine if a particular product is subject to the above regulations, please contact us.

## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with USA requirements and obtaining the necessary approval.

As a recognised NRTL, TÜV SÜD can provide electrical safety certification for a range of products including:

- Electrical drives
- Industrial control systems
- IT equipment
- Laboratory equipment
- Lasers
- Power supplies etc.



## General specifications

Voltage	120V (Single Phase); 120/208V / 277/480V (Three Phase)
Frequency	60Hz
Manual Language	English
Plug Type	A/B

## GUIDELINES

- Although certification is not mandatory for most products, it is highly recommended for marketing purposes and offers state-level authorities a sound basis for product evaluation.
- Certified products have the NRTL mark and are listed in a "Listing Book" published by the NRTL.



# United States of America (USA)

## USA conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom 	Administrative Council for Terminal Attachments (ACTA)	<ul style="list-style-type: none"> <li>CFR Part 68 requires compliance.</li> <li>Declaration of Compliance (DoC) is required.</li> </ul>
Wireless 	Federal Communications Commission (FCC)	<ul style="list-style-type: none"> <li>CFR Part 15 requires compliance. Testing by an accredited test laboratory is required.</li> <li>DoC or Certification from a telecoms CB is required.</li> <li>As a general guide:           <ul style="list-style-type: none"> <li>DoC or Certification is required for unintentional radiators.</li> <li>Certification is required for intentional radiators.</li> </ul> </li> </ul>



## GUIDELINES

### DoC procedure:

- Test the product for compliance at an accredited test laboratory.
- Prepare a technical file.
- Mark the product and place the requirement FCC notices in the user manual.
- Prepare and sign a DoC.

### Certification procedure:

- Get the product tested at a telecom CB.
- Submit the test report, together with other essential documents and a proposed FCC ID Number to the FCC.
- Mark the product with the FCC ID and compliance statement, and place the required FCC notices in the user manual.



# United States of America (USA)

## USA conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
EMC 	FCC	<ul style="list-style-type: none"> <li>Manufacturers' declaration is required for certain products stated in Title 47 of the CFR, Part 15 and Part 18.</li> <li>Household appliances are exempted.</li> </ul> 

### Applicable product categories

Common unintentional radiators include personal computers, peripherals, receivers, radios, TV sets, and cable TV home terminals.

Intentional radiators include cable-locating equipment, cordless telephones, remote control and alarm transmitters, field-disturbance sensors for opening doors, and spread-spectrum systems for wideband data transmission.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with USA requirements and obtaining the necessary approval.

As a Telecoms CB, TÜV SÜD is authorised by the FCC to issue grants for a wide range of equipment within the following categories:

- Licensed Radio Service Equipment
- Radio Equipment (intentional and unintentional radiators)
- Unlicensed Radio Equipment
- Wireline Terminal Equipment

## GUIDELINES

### DoC procedure:

- Test the product for compliance at an accredited test laboratory.
- Prepare a technical file.
- Mark the product and place the required FCC notices in the user manual.
- Prepare and sign a DoC.

### Certification procedure:

- Get the product tested at a Telecoms CB.
- Submit the test report, together with other essential documents and a proposed FCC ID Number to the FCC.
- Mark the product with the FCC ID and compliance statement, and place the required FCC notices in the user manual.



# United States of America (USA)

## USA conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS	GUIDELINES
<b>Energy Efficiency and Environmental</b>  	U.S. Department of Energy (DOE)	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>Minimum Energy Performance Standards (MEPS) are required for many products.</li> <li>Mandatory Energy Guide labelling is required for certain products.</li> </ul> <p><b>RoHS:</b></p> <ul style="list-style-type: none"> <li>Californian RoHS under the Electronic Waste Recycling Act 2003.</li> </ul>	<p>Manufacturers must submit energy use data to the DOE and FTC stating that it complies with the regulations. They must also report to DOE and FTC when a new model is introduced or an existing one discontinued.</p> <p>Information on EnergyGuide labels must be based on Department of Energy (DOE) test procedures.</p>

### Applicable product categories

Product categories that require mandatory labelling include:

- Ballasts
- Boilers
- Central air conditioners
- Clothes washers
- Dishwashers
- Fluorescent lamps
- Freezers
- Furnaces
- Heat pumps
- Heaters
- Refrigerators
- Room air conditioners
- Water heaters

A full list of product categories may be found at <http://energy.gov/eere/buildings/standards-and-test-procedures>

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with USA requirements and obtaining the necessary approval. TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.



# Australia

## Australia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Electrical Regulatory Authorities Council (ERAC)	<ul style="list-style-type: none"> <li>Risk based classification of equipment into 3 levels (Level 3 = High risk, Level 2 = Medium risk and Level 1 = Low risk) with different requirements for each level.</li> <li>Level 3 certificates are Certificates of Conformity (CoC)</li> <li>Level 1 and 2 certificates are Certificates of Suitability (CoS)</li> <li>Must certify to Equipment Safety Rules and AS/NZS 4417.2</li> <li>All Level 1, 2, or 3 electrical equipment must be marked with the RCM and should be placed in accordance with AS/NZS 4417.1</li> </ul> 

### Applicable product categories

There are 64 classes of electrical items classified as declared articles. Examples include dishwashers, hairdryers, room heaters and sewing machines.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Australian requirements and obtaining the necessary approval.

### General specifications

Voltage	230V (Single Phase); 415V (Three Phase)
Frequency	50Hz
Manual Language	English
Plug Type	I

### GUIDELINES

- A Responsible Supplier, who must be a legally identifiable Australian or New Zealand entity holding an Australian Business Number (ABN), or a New Zealand Inland Revenue Department (IRD) number, is required to register the Level 2 and Level 3 electrical equipment on the National Database ([www.erac.gov.au](http://www.erac.gov.au)).
- Test Reports should be:
  - Accredited reports with ILAC
  - CB reports accompanied by a CB certificate



# Australia

## Australia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS	GUIDELINES
EMC 	Australian Communications and Media Authority (ACMA)	<p>The RLN recognises three compliance levels:</p> <ul style="list-style-type: none"> <li>• Compliance level 1 (low-risk device)</li> <li>• Compliance level 2 (medium-risk device)</li> <li>• Compliance level 3 (high-risk device).</li> </ul> <p>Testing of products subject to an EMC standard:</p> <ul style="list-style-type: none"> <li>• Low- and medium-risk device — testing can be conducted by any testing body or in-house test facility</li> <li>• High-risk device — testing must be conducted by an accredited testing body.</li> </ul> <p>Labelling:</p> <ul style="list-style-type: none"> <li>• The EMC LN requires a supplier of products (other than low-risk devices) subject to the EMC regulatory arrangements to apply a compliance label to a product before it can be supplied to the Australian market. Labelling of low-risk devices is optional.</li> </ul> <div style="text-align: center;">   <b>RCM Mark</b> </div>	<ol style="list-style-type: none"> <li>1. Identify the applicable labelling notice</li> <li>2. Identify the applicable technical standards and the testing requirements</li> <li>3. Demonstrate product compliance</li> <li>4. Complete a Declaration of Conformity (DoC) and maintain compliance records</li> <li>5. Register as a “responsible supplier”</li> <li>6. Label the product</li> </ol>

### Applicable product categories

A full list of product categories under radiocommunications standards may be found at <https://www.acma.gov.au/technical-standards#radiocommunications-standards>

A full list of product categories under EMC standards may be found <https://www.acma.gov.au/sites/default/files/2019-08/ACMA-mandated%20EMC%20standards.pdf>

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Australian requirements and obtaining the necessary approval. TÜV SÜD can also perform required testing to applicable standards.



# Australia

## Australia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom 	Australian Communications and Media Authority (ACMA)	<ul style="list-style-type: none"> <li>The TLN recognises two risk levels:           <ul style="list-style-type: none"> <li>Non-high-risk (non-compliance may have adverse consequences)</li> <li>High-risk (non-compliance may have serious adverse consequences)</li> </ul> </li> <li>Each risk level specifies the evidence a supplier must obtain to demonstrate the product complies with the applicable ACMA technical standard.</li> <li>Testing of telecommunications products:</li> <li>Non-high risk – testing can be conducted by any testing body or in-house test facility</li> <li>High-risk – testing must be conducted by an accredited testing body/recognised testing authority (RTA).</li> <li>A compliance label can be in the form of the RCM or a QR code.</li> </ul> 

## GUIDELINES

- Identify the applicable labelling notice
- Identify the applicable technical standards and the testing requirements
- Demonstrate product compliance
- Complete a Declaration of Conformity (DoC) and maintain compliance records
- Register as a “responsible supplier”
- Label the product

## Applicable product categories

A full list of product categories under the telecommunications standards may be found at <https://www.acma.gov.au/Industry/Suppliers/Regulatory-arrangements/Telecommunications-customer-equipment-and-cabling/telecommunications-standards-list>

To determine if a particular product is subject to the above regulations, please contact us.

## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Australian requirements and obtaining the necessary approval. TÜV SÜD can also perform required testing to applicable standards.



# Australia

## Australia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Wireless 	Australian Communications and Media Authority (ACMA)	<p>The RLN recognises three compliance levels:</p> <ul style="list-style-type: none"> <li>• Compliance level 1 (low-risk device)</li> <li>• Compliance level 2 (medium-risk device)</li> <li>• Compliance level 3 (high-risk device).</li> </ul> <p>Testing of radiocommunications products:</p> <ul style="list-style-type: none"> <li>• Compliance level 2/medium-risk — testing can be conducted by any testing body or in-house test facility</li> <li>• Compliance level 3/high-risk — testing must be conducted by an accredited testing body.</li> </ul> <p>Labelling:</p> <ul style="list-style-type: none"> <li>• The RLN requires a supplier of specified radiocommunications products to apply a compliance label to a product to indicate whether the product complies with mandatory technical standards.</li> </ul> <div style="text-align: center;">   <b>RCM Mark</b> </div>

## GUIDELINES

1. Identify the applicable labelling notice
2. Identify the applicable technical standards and the testing requirements
3. Demonstrate product compliance
4. Complete a Declaration of Conformity (DoC) and maintain compliance records
5. Register as a “responsible supplier”
6. Label the product



# Australia

## Australia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Energy Efficiency	Department of Industry, Science, Energy and Resources 	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>Minimum Energy Performance Standards (MEPS) are required for many products.</li> <li>The mandatory Star Rating Label Scheme is required for certain products.</li> </ul>

### GUIDELINES

- Online registration applications must be made in the format as prescribed in the applicable Australian Standard.

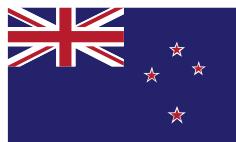
### Applicable product categories

A full list of product categories under the telecommunications standards may be found at <https://www.acma.gov.au/Industry/Suppliers/Regulatory-arrangements/Telecommunications-customer-equipment-and-cabling/telecommunications-standards-list>

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Australian requirements and obtaining the necessary approval. TÜV SÜD can also perform required testing to applicable standards.



# New Zealand

## New Zealand conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Electrical Regulatory Authorities Council (ERAC)	<p></p> <ul style="list-style-type: none"> <li>The Electricity Act 1992 requires all electrical products to be of a high quality and standard, so that their construction and maintenance meet the safety requirements within the Electricity (Safety) Regulations 2010.</li> <li>Supplier declared equipment and general electrical equipment that is listed in AS/NZS 4417.2, will be required to be supported by recognised test reports listed in AS/NZS 4417.2 and AS/NZS 4417.3, for both safety and EMC, before the legal use of the RCM can be applied for.</li> </ul> <p> RCM Mark</p> <ul style="list-style-type: none"> <li>Certain products are listed as high risk and medium risk. These require an approval and/or a Supplier Declaration of Conformity (SDoC) before being offered for sale or sold, offered for supply or supplied.</li> <li>Compliance with recognised safety standards (normally NZS or AS/NZS), is necessary for a product to be recognised as being safe. These can be in the form <ul style="list-style-type: none"> <li>of test reports from recognised testing laboratories.</li> </ul> </li> </ul>

### General specifications

Voltage	230V (Single Phase); 415V (Three Phase)
Frequency	50Hz
Manual Language	English
Plug Type	I

### GUIDELINES

- Identify the applicable labelling notice
- Identify the applicable technical standards and the testing requirements
- Demonstrate product compliance
- Complete a Supplier Declaration of Conformity (SDoC) and maintain compliance records
- Register as a “responsible supplier”
- Label the product

**Applicable product categories**

A full list of high risk product may be found at <https://worksafe.govt.nz/topic-and-industry/electricity/appliances-and-fittings/high-and-medium-risk-products/product-list/>

A full list of medium risk product may be found at <https://worksafe.govt.nz/topic-and-industry/electricity/appliances-and-fittings/high-and-medium-risk-products/medium-risk-product-list/>

To determine if a particular product is subject to the above regulations, please contact us.

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with New Zealand's requirements and obtaining the necessary approval.

TÜV SÜD can also perform required testing to applicable standards.



# New Zealand

## New Zealand conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom	Ministry of Economic Development 	<ul style="list-style-type: none"> <li>A Telepermit indicates that a product may be connected to the Telecom New Zealand network.</li> <li>Testing should be performed by a Recognised Testing Authority according to Permit to Connect (PTC) specifications.</li> <li>Applications should be submitted to Telecom New Zealand's Access Standards Team.</li> <li>Upon being granted with Telepermit, manufacturers are required to label products appropriately.</li> </ul>

### GUIDELINES

- A local representative is required.

#### Certification procedure:

- Submission of application, test report and essential documents.
- Assessment.
- Grant of Telepermit.

### Applicable product categories

A full list of product categories under telecom standards may be found at [www.telepermit.co.nz/resources\\_index.html](http://www.telepermit.co.nz/resources_index.html)

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with New Zealand requirements and obtaining the necessary approval.

TÜV SÜD can also perform required testing to applicable standards.



# New Zealand

## New Zealand conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Wireless & EMC	Ministry of Economic Development, Radio Spectrum Management (RSM)	<ul style="list-style-type: none"> <li>Joint Australia and New Zealand standards (AS/NZS) and international standards (IEC-CISPR, ETS, EN, &amp; FCC), are adopted in New Zealand where possible</li> <li>EMC products and some radio products harmonised with Australia.</li> <li>Make an informed decision about the level of evidence showing compliance with the applicable standard. A test report or manufacturer's specification to support your declaration that the product meets a relevant standard mandated by Radio Spectrum Management (RSM), or A test report from an accredited laboratory (which may be in NZ or overseas) is required for level of conformity 3 products.</li> </ul>
(wi-fi icon)		 <p>The RCM Mark is a circular logo containing a stylized 'C' and 'V' intertwined, with the words 'RCM Mark' written below it.</p> <ul style="list-style-type: none"> <li>Products that are radio transmitters of level of conformity A1, A2 or A3, the compliance label is: R-NZ</li> <li>Supplier should register in the database of ERAC (Electrical Regulatory Authorities Council).</li> </ul>

## GUIDELINES

1. Make sure your products meet an appropriate standard
2. Prepare your product description
3. Prove compliance through testing
4. Complete a Supplier's Declaration of Conformity (SDoC)
5. Complete the supplier documentation
6. Apply for a Responsible Supplier Number
7. Label the product
8. Apply for a license to supply radio and wireless products

**Applicable product categories**

A full list of applicable standards and level of conformity for radio product may be found at <https://gazette.govt.nz/notice/id/2016-go2007>

A full list of product categories under EMC standards may be found at <https://gazette.govt.nz/notice/id/2015-go4671>

To determine if a particular product is subject to the above regulations, please contact us.

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with New Zealand requirements and obtaining the necessary approval.

TÜV SÜD can also perform required testing to applicable standards.



# New Zealand

## New Zealand conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency</b> 	Energy Efficiency and Conservation Authority (EECA)	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>• New Zealand's energy efficiency programs are closely linked to those of Australia.</li> <li>• Under the Equipment Energy Efficiency programme (E3), the Regulations cover products for home, commercial and industrial use. E3 develops 2 measures - MEPS(Minimum Energy Performance Standards) and MEPL(Mandatory Energy Performance Labelling).</li> <li>• The mandatory Star Rating Label Scheme is required for certain products.</li> </ul>

### GUIDELINES

- Registration applications must be made in the format as prescribed in the applicable New Zealand Standard.
- Test procedures, comparative labelling and MEPS requirements are mostly contained in joint Australian and New Zealand standards.

### Applicable product categories

A full list of products under E3 may be found at <https://www.eeca.govt.nz/our-work/product-regulations/equipment-energy-efficiency/products-under-e3/>.

A full list of products under Energy rating label may be found at <https://www.eeca.govt.nz/our-work/product-regulations/product-labels/energy-rating-label/>.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with New Zealand requirements and obtaining the necessary approval.

TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.



# Brunei Darussalam

## Brunei Darussalam conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Department of Electrical Services (DES, Prime Minister Office)	<ul style="list-style-type: none"> <li>For registration, products must conform to safety requirements according to standards stipulated by the DES under the Electricity Act.</li> <li>Compliance with IEC standards.</li> </ul>

### Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Bruneian requirements and obtaining the necessary approval.

As a listed CB for Brunei under the ASEAN EE MRA, test reports issued from recognised TÜV SÜD laboratories and CoC are accepted by the DES for registration.

### General specifications

Voltage	240V (Single Phase); 415V (Three Phase)
Frequency	50Hz
Manual Language	Malay/English
Plug Type	G

### GUIDELINES

- Suppliers registering products should register through the Product Procurement Section.
- Product approval will be endorsed by the Registration Committee upon satisfactory conformity assessment with the provision of quality assurance details, test reports and certification by international test bodies, etc.



# Brunei Darussalam

## Brunei Darussalam conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Authority for Info-communications Technology Industry (AITI)  	<ul style="list-style-type: none"> <li>All telecommunication, radiocommunication and satellite equipment to be sold and used in Brunei Darussalam must be type approved by AITI.</li> <li>Type approval must be registered under a local representative who holds a valid AITI Dealer licence.</li> <li>FCC/EN test reports are acceptable and there is no sample requirement.</li> <li>An import permit is required for products to enter customs, upon type approval of equipment.</li> <li>Products must be marked with the AITI Approved label.</li> </ul> <p> <b>EMC:</b></p> <ul style="list-style-type: none"> <li>EMC compliance is required for the above, where applicable.</li> </ul>

### GUIDELINES

- A local representative is required.

#### Type approval procedure:

- Registration for license.
- Application for type approval.
- Submission of test report and essential documents.
- Review of documents.
- Issuance of type approval.
- Issuance of import permit.

**Applicable product categories**

**Level 1:** Faxes, telephone systems, PABX/KTS, ADSL modems (Fixed), audio and video conferencing systems, short range devices, VOIP

**Level 2:** Cordless telephone systems, amateur radios, satellite radios, marine radios, pagers, satellite receivers, Kristal Astro

**Level 3:** Modems (wireless), mobile phones, base stations, radars, radio data transceivers, high power radio equipment, aeronautical radio transceivers, walkie talkie radios

To determine if a particular product is subject to the above regulations, please contact us.

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Bruneian requirements and obtaining the necessary approval.

TÜV SÜD can also perform the required testing to EN standards.

Designated by Brunei AITI, TÜV SÜD is a Recognised Certification Body for Conformity Assessment of Telecommunication Equipment. TÜV SÜD PSB is authorised to issue Type Approval certificate on behalf of Brunei AITI for the following scopes:

- AITI-TS-SRD
- AITI-TS-LMR



# Brunei Darussalam

## Brunei Darussalam conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency</b> 	Energy Labelling and Standards Task Force of Energy Division, Prime Minister's Office	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>• There are currently no mandatory requirements in Brunei.</li> <li>• The Energy Labelling Scheme is voluntary for room air conditioners.</li> <li>• The Energy Label will be issued in the form of a certificate and shall be based on a 5-Star rating scheme.</li> </ul>

### GUIDELINES

- Manufacturers who wish to participate in the Energy Labelling Scheme may submit applications for both supplier registration and product registration to the Division.

### Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Bruneian requirements and obtaining the necessary approval. TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.



# Cambodia

## Cambodia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Institute of Standards of Cambodia (ISC) 	<ul style="list-style-type: none"> <li>The ISC Product Certification Scheme provides rules for a third-party certification system of conformity assessment through testing and assessment of the factory quality management system.</li> <li>The scheme is mandatory for products covered under mandatory standards.</li> <li>Manufacturers are required to apply for a Product Registration License to affix the ISC Mark on products.</li> </ul>  <ul style="list-style-type: none"> <li>Compliance with CS and/or IEC standards.</li> </ul>

### General specifications

Voltage	220V (Single Phase); 400V (Three Phase)
Frequency	50Hz
Manual Language	Khmer/French
Plug Type	A/C/G

### GUIDELINES

- Foreign manufacturers need to sign an agreement for using the ISC Mark, and a local representative is required.

#### Licensing procedure:

- Application.
- Issue of factory inspection report from an inspection body recognised by MIME (Ministry of Industry, Mines and Energy).
- Submission of CB certificate and test report with technical documents.
- Signing of agreement.
- Issuance of license.
- Publication in ISC bulletin and/or website.
- Surveillance sampling and testing at six-month intervals.

**Applicable product categories**

Products categories under the mandatory scheme generally include any domestic electrical and electronic product; any product which is usually sold directly to the general public; or any product which does not require special skills in its operation.

To determine if a particular product is subject to the above regulations, please contact us.

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Cambodian requirements and obtaining the necessary approval.

As a listed CB for Cambodia under the ASEAN EE MRA, TÜV SÜD's test reports and CoC are accepted by ISC for safety approval.



# Cambodia

## Cambodia conformity requirements

Category	Regulatory Agency	Regulations
Telecom & wireless	Telecommunication Regulator of Cambodia (TRC)	<ul style="list-style-type: none"> <li>Regulated products require application for type approval from TRC.</li> <li>Test reports to EN and FCC standards are accepted.</li> </ul> <p><b>EMC:</b></p> <ul style="list-style-type: none"> <li>EMC compliance is required for the above, where applicable.</li> </ul>

### GUIDELINES

- A local representative is required.

#### Type approval procedure:

- Submission of application for type approval, test report and essential documents.
- Product sample review upon request.
- Issuance of type approval.

### Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Cambodian requirements and obtaining the necessary approval. TÜV SÜD can also perform the required testing to EN standards.



# Cambodia

## Cambodia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Energy Efficiency	Ministry of Health	<ul style="list-style-type: none"><li>There are currently no environmental requirements in Cambodia.</li></ul>



## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in obtaining voluntary international endorsement labels.



# China

## China conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Certification and Accreditation Administration of the People's Republic of China (CNCA)	<ul style="list-style-type: none"> <li>Any product covered by the CCC catalogue of products should acquire the CCC Mark as a form of compulsory certification which includes CCC certificate, CCC SDoC.</li> </ul> 
EMC		<ul style="list-style-type: none"> <li>Compliance with GB standards.</li> </ul> <p><b>EMC:</b></p> <ul style="list-style-type: none"> <li>EMC compliance is required for the above, where applicable.</li> </ul>

### General specifications

Voltage	220V (Single Phase); 380V (Three Phase)
Frequency	50Hz
Manual Language	Simplified Chinese
Plug Type	A/C/I

### GUIDELINES

#### CCC certification procedure:

- Submit an application with supporting materials to an authorised CB.
- Type testing in CNCA accredited laboratories.
- Initial factory inspection.
- Obtain CCC certificate and affix the label on the product.

#### CCC SDoC procedure:

- Submit an application with supporting materials.
- Type testing in optional laboratory or designated laboratory based on product category.
- Applicant sign CCC SDoC if test result is positive.
- Applicant register SDoC online and affix the label on the product.

### **Applicable product categories**

Products categories requiring CCC Mark include:

- Agricultural machinery
- Building material
- Power tools
- Electrical wires and cables
- Electronics equipment and safety accessories
- Explosion-proof electrical apparatus
- Fire-fighting products
- Household and similar use appliances
- Household gas appliances
- Lighting apparatus
- Lithium-ion batteries and battery packs
- Low-voltage electrical apparatus
- Power supply (supporting telecommunication terminal equipment)
- Power bank
- Small power motors
- Switches for circuits, installation protective and connection devices
- Children's products
- Vehicles and safety accessories
- Welding machines

To determine if a particular product is subject to the above regulations, please contact us.

### **TÜV SÜD solutions**

TÜV SÜD provides a full suite of CCC services including document preparation and pre-check, application for certification, coordination for type test and initial factory inspection, release of certification and test report, obtaining CCC Mark and coordination for follow-up factory inspection.



# China

## China conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom	Ministry of Industry and Information Technology (MIIT) 	<ul style="list-style-type: none"> <li>Network Access License (NAL) approval is mandatory for all telecommunications equipment covered by the NAL product categories announced by MIIT.</li> <li>Testing must be conducted in MIIT designated laboratories in China.</li> <li>MIIT's NAL Certification Centre is the only authorised certification organisation.</li> <li>Each type of approved product will be issued a Network Access Identifier (NAI) with the certification number.</li> <li>Products must be marked with the NAL label.</li> </ul> 

## GUIDELINES

### NAL\* approval procedure:

- Submit an application.
- Get product tested by MIIT accredited test laboratories.
- Go through a quality audit.
- Obtain an approval certificate.
- Label products appropriately.

## Applicable product categories

The scope of China NAL approval includes 3 categories of equipment:

- Internet Equipment
- Radio Telecom Terminal Equipment
- Telecom Terminal Equipment

To determine if a particular product is subject to the above regulations, please contact us.

## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Chinese requirements and obtaining the necessary approval.

\* Since some telecommunication products are subject to both NAL approval and CCC certification, applicants are advised to apply for the NAL approval first before CCC certification, to avoid repeat testing, as some parts of the NAL test results may be used for CCC certification.



# China

## China conformity requirements

Category	Regulatory Agency	Regulations
Wireless 	Ministry of Industry and Information Technology of the People's Republic of China (MIIT)	<ul style="list-style-type: none"> <li>SRRC (State Radio Regulatory Commission of the People's Republic of China) Certification is compulsory for all products with modular radio.</li> <li>SRRC is the only designated certification organisation for Radio type approval, and the SRRC will assign test to its recognised testing laboratory for the testing.</li> <li>No formal mark is required apart from a CMIIT ID that must appear on products or labels.</li> </ul> <p>CMIIT ID: AABCCDDDEEEE</p>

## GUIDELINES

### Radio type\* approval procedure:

- Submit an application.
- Test the product at SRRC's recognised testing laboratory
- Review of test report.
- Obtain an approval certificate from SRRC.

## Applicable product categories

In principle, all radio emission equipment whose frequencies are above 9kHz require radio equipment type approval in China.

To determine if a particular product is subject to the above regulations, please contact us.

## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Chinese requirements and obtaining the necessary approval.

\* Since some telecommunication products are subject to both NAL approval and CCC certification, applicants are advised to apply for the NAL approval first before CCC certification, to avoid repeat testing, as some parts of the NAL test results may be used for CCC certification.



# China

## China conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Energy Efficiency 	The China Energy Label Center (CELC)	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>Minimum Energy Performance Standards (MEPS) are required for various products.</li> <li>Mandatory labelling is required for certain products.</li> <li>Manufacturers need to register compliance online with the China Energy Label Website.</li> <li>Testing must be performed by recognised accredited test laboratories.</li> <li>The Chinese National Development and Reform Commission (NDRC), Chinese Administration for Quality Supervision, Inspection and Quarantine (AQSIQ) and Chinese Ministry of Industry and Information Technology (MIIT) jointly issued a notice setting out the implementation rules for five products under the “Leader” Energy Efficiency Program on Dec. 2017. Approved products can be marked as “Leader” products. This program is implemented on a voluntary basis.</li> </ul>

## GUIDELINES

- Manufacturers need to submit essential documentation and test reports to obtain approval.
- Registered products will be listed on the website.



# China

## China conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Environmental 	Ministry of Industry and Information Technology (MIIT)	<p><b>RoHS 2:</b></p> <ul style="list-style-type: none"> <li>• China RoHS 2 covers electrical and electronic products</li> <li>• The order restricts the use of the following six hazardous substances in electrical equipment namely:             <ol style="list-style-type: none"> <li>1. Lead and its compounds;</li> <li>2. Mercury and its compounds;</li> <li>3. Cadmium and its compounds;</li> <li>4. Hexavalent chromium compounds;</li> <li>5. Polybrominated biphenyls (PBB);</li> <li>6. Polybrominated diphenyl ethers (PBDE).</li> </ol> </li> <li>• Suppliers of electrical and electronic equipment can use the China RoHS 2 Conformity Assessment Public Service Platform to declare the use of hazardous substances in their products. The platform can be found at <a href="http://chinarohs.miit.gov.cn/#/index">http://chinarohs.miit.gov.cn/#/index</a>.</li> </ul>  

## GUIDELINES

**Companies may choose either of the following methods to complete the conformity assessment:**

- Voluntary Certification: company may choose third party certification institution to certify the products as compliant with standards and technical requirements on restricted use of hazardous chemicals.
- Company Self-declaration: the suppliers (manufacturers or delegated agency) may conduct self evaluation to prove compliance with standards and technical requirements on restricted use of hazardous chemicals.



Label 1



Label 2



Companies choosing voluntary certification to complete conformity assessment may use Label 1 as conformity label while companies choosing self-declaration may use Label 2.

### Applicable product categories

Product categories that require energy efficiency labelling include:

- Air compressors
- Air conditioners
- Air purifiers
- Chillers
- Computer monitors
- Copier
- Domestic cookers
- Electric Ovens
- Fans
- Flat-panel TV and Set-top Boxes
- Lamps
- Power transformers
- Refrigerators
- Small motors
- Storage type water heaters
- Washing machines
- Water heaters
- Etc.

A full list of product categories may be found at <https://www.energylabel.com.cn/nxbs/display.htm?contentId=89ad1b22d4be441e994de9a5fef9cb63>

Leader Energy Efficiency Program:

- Electric washing machines,
- Flat panel televisions,
- Household refrigerators,
- Lighting products, and
- Variable speed room air conditioners.
- To determine if a particular product is subject to the above regulations, please contact us.

From 15 March 2019, the following product ranges are subject to mandatory hazardous substance restrictions set out in GB/T 26572-2011:

- Air conditioners
- Copier
- Electric water heaters
- Fax machines
- Microcomputers
- Mobile communication devices
- Monitors
- Printers
- Refrigerators
- Telephones
- Televisions
- Washing machines

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Chinese requirements and obtaining the necessary approval. TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.



# Hong Kong

## Hong Kong conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Electrical & Mechanical Services Department (EMSD), Government of the Hong Kong Special Administrative Region 	<ul style="list-style-type: none"> <li>All electrical products within the scope of control of the Electrical Products (Safety) Regulation (EPSR) are required to comply with the applicable requirements.</li> <li>Prescribed products require certification under an approval regime requiring type testing.</li> <li>Non-prescribed products require supplier declarations while certification is also an option.</li> <li>Compliance with IEC standards.</li> </ul>
EMC	Office of the Communications Authority (OFCA) 	<ul style="list-style-type: none"> <li>EMC compliance is required for the above, where applicable.</li> </ul>

\* Recognised manufacturers are manufacturers who are recognised by EMSD as qualified to issue certificates of safety compliance for the products manufactured by them.

### General specifications

Voltage	220V (Single Phase); 380V (Three Phase)
Frequency	50Hz
Manual Language	English/Traditional Chinese
Plug Type	G/D

### GUIDELINES

- A local representative is required.

#### Certification procedure:

- Testing to applicable standards should be performed by a recognised CB or recognised manufacturers.
- Certificates are issued by a recognised CB, or DoC is issued by recognised manufacturers\*.

#### Supplier declaration procedure:

- Manufacturers take responsibility and hold relevant compliance documents for subsequent audits.
- Manufacturers are required to keep test reports for possible request of files.

#### **Applicable product categories**

Prescribed products include:

- Adaptors
- Extension units
- Flexible cords
- Lampholders
- Plugs
- Unvented thermal storage type electric water heaters

Non-prescribed products include all other electrical products.

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Hong Kong requirements and obtaining the necessary approval.

TÜV SÜD is a recognised CB able to perform testing and issue certificates to manufacturers.



# Hong Kong

## Hong Kong conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Office of the Communications Authority (OFCA)	<ul style="list-style-type: none"> <li>The Hong Kong Telecommunications Equipment Evaluation and Certification (HKTEC) Scheme divides certification requirements into the Voluntary Certification Scheme* (VCS) and the Compulsory Certification Scheme (CCS).</li> <li>Products must be marked with CA label.</li> </ul> <div style="text-align: center;">  <p>A rectangular label with a blue border. The top half contains the text 'Certified for use in Hong Kong' and '经验证可在香港使用'. The bottom half contains 'Certificate No. 檢證號碼' followed by a series of letters and numbers 'ZZZZZYXXXXXX'. Below the text is the logo of the Office of the Communications Authority (OFCA), which is a stylized 'C' inside a circle.</p> </div> <ul style="list-style-type: none"> <li>Testing must be performed by Recognised Testing Agencies (RTA) and certification issued by a recognised CB.</li> </ul> <p><b>EMC:</b></p> <ul style="list-style-type: none"> <li>EMC compliance is required for the above, where applicable.</li> </ul>

## GUIDELINES

- Equipment classified under VCS need not be certified while those classified under CCS require CB certification.
- Under the HKTEC Scheme, manufacturers may affix, on a voluntary basis, a label prescribed by OFTA to VCS or CCS certified equipment.

## Applicable product categories

VCS and CCS classification of telecom equipment may be found at [www.ofca.gov.hk/filemanager/ofca/common/Industry/telecom/standard/i412e.pdf](http://www.ofca.gov.hk/filemanager/ofca/common/Industry/telecom/standard/i412e.pdf) and [www.ofca.gov.hk/filemanager/ofca/common/Industry/telecom/standard/i416e.pdf](http://www.ofca.gov.hk/filemanager/ofca/common/Industry/telecom/standard/i416e.pdf)

VCS and CCS classification of wireless equipment type may be found at [www.ofca.gov.hk/filemanager/ofca/common/Industry/telecom/standard/i401e.pdf](http://www.ofca.gov.hk/filemanager/ofca/common/Industry/telecom/standard/i401e.pdf)

To determine if a particular product is subject to the above regulations, please contact us.

## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Hong Kong requirements and obtaining the necessary approval. TÜV SÜD is also able to perform testing to EN standards which can be used for wireless certification.

\* Although certification of equipment under this VCS is voluntary, equipment must comply with the relevant specifications.



# Hong Kong

## Hong Kong conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS	GUIDELINES
Energy Efficiency	Electrical & Mechanical Services Department (EMSD) 	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>• Certain electrical appliance are regulated under Mandatory Energy Efficiency Labelling Scheme (MEELS) and energy labels are required to be shown on the prescribed products for supply in Hong Kong to inform consumers of their energy efficiency performance.</li> <li>• Manufacturers of other products are also encouraged to participate in the voluntary EELS.</li> </ul>	<p>• Manufacturers are required to submit product information and test reports to EMSD.</p> <p>• If accepted, a reference number will be assigned to the product model which will then be included in the EMSD record.</p>

### Applicable product categories

MEELS currently covers eight types of prescribed products, namely room air conditioners, refrigerating appliances, compact fluorescent lamps (CFLs), washing machines, dehumidifiers, televisions, storage type electric water heaters, LED, gas cookers, gas instantaneous water heaters and induction cookers.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Hong Kong requirements and obtaining the necessary approval.

TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.



# India

## India conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Bureau of Indian Standards (BIS)  	<ul style="list-style-type: none"> <li>The ISI Mark, or Standard Mark, is issued by BIS under its certification scheme.</li> </ul> <div style="text-align: center;">   <small>CM/LXXXXXX</small> </div> <ul style="list-style-type: none"> <li>ISI certification* is a self-regulation scheme. The scheme itself is voluntary; however, the Government has enforced mandatory certification on various products.</li> <li>While BIS grants licences on application, the enforcement of compulsory certification is done by the notified authorities – in this case, officers appointed by State Government/Central Government.</li> <li>Compliance with ISO Guide 28 and 65.</li> </ul>

### General specifications

Voltage	230V (Single Phase); 400V (Three Phase)
Frequency	50Hz
Manual Language	Hindi/English
Plug Type	C/D/M

### GUIDELINES

- A local representative is required.

**Standard procedure for ISI certification:**

- Submit application with essential documents to BIS.
- Factory inspection by BIS officer.
- Sample picking in factory for independent testing.
- Grant of license.
- The simplified procedure for ISI certification\*\* requires a submission application with test reports issued by BIS approved test laboratories.

### Applicable product categories

Product categories requiring ISI certification include:

- Cables
- Circuit breakers
- Electric immersion water heaters
- Electric irons
- Electric lamps
- Electric radiators
- Electric stoves
- Switches
- Etc.

A full list of product categories may be found at <https://bis.gov.in/index.php/product-certification/products-under-compulsory-certification/scheme-i-mark-scheme/>.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Indian requirements and obtaining the necessary approval.

TÜV SÜD is also able to support manufacturers in attaining the voluntary S Mark under the Safety Certification Scheme operated by STQC.

\* Certification procedure and submission requirements differ between foreign manufacturers and Indian importers.

\*\* The simplified procedure is not granted to some items under mandatory certification and all first-time licenses for any product.



# India

## India conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Bureau of Indian Standards (BIS)	<p></p> <ul style="list-style-type: none"> <li>The Compulsory Registration Scheme (CRS) covers 63 types of electronics and information technology goods.</li> <li>The registered users should use the Standard Mark along with Registration number and IS No.</li> </ul> <p> IS R - XXXXXXXX</p> <ul style="list-style-type: none"> <li>Any device with an integrated display screen may present the required labelling information including BIS "Standard Mark" electronically in lieu of a physical label or nameplate on the product.</li> </ul>

### GUIDELINES

- A local representative is required.

#### CRS procedure:

- Testing in BIS recognized laboratory.
- Submit application to BIS.
- Grant of registration.

### Applicable product categories

Product categories requiring BIS registration include:

- Adapters for household and similar electrical appliances
- Amplifiers (I/P power >2000W)
- Automated data processing machines
- Automatic Teller Cash dispensing machines
- Bluetooth Speakers
- Cash registers
- CCTV Cameras/CCTV Recorders
- Copying machines / duplicators
- Crystalline Silicon Terrestrial Photovoltaic (PV) modules (Si wafer based)
- DC or AC supplied electronic control gear for LED modules
- Digital Camera
- Dimmers for LED products
- Electronic clock with mains power
- Electronic games (video)
- Electronic music system
- Fixed general purpose LED luminaires
- Induction Stove
- Keyboard
- Laptops / notebooks / tablets
- LCD / LED / plasma TVs
- LED Hand lamps
- LED Lighting Chains
- LED Luminaires for Emergency Lighting
- LED Luminaires for Road and Street lighting
- Lighting Chain (Rope Lights)
- Luminaires (floodlight)
- Mail processing / postage machines / franking machines
- Microwave ovens
- Mobile phones
- Optical disc players with in-built amplifier (I/P power >200W)
- Passport readers
- Point of sale terminals
- Power adaptors for audio, video & similar electronic apparatus
- Power adaptors for IT equipment
- Power banks for use in portable applications
- Power converters for use in photovoltaic power system
- Printer / plotters
- Recessed LED Luminaries
- Rice Cooker
- Scanner
- Sealed secondary cells / batteries containing alkaline or other non-acidic electrolyte for use in portable applications
- Self - ballasted LED lamps for general lighting services
- Set-top boxes
- Smart card readers
- Smart Speakers (with/without Display)
- Smart watches
- Standalone LED Modules for General Lighting
- Standalone Switch Mode Power Supplies (SMPS) with output voltage 48V (max)
- Storage battery
- Telephone answering machines
- Television other than Plasma/ LCD/LED TVs
- Thin-Film Terrestrial Photovoltaic (PV) Modules (a-Si, CIGs and CdTe)
- UPS/Inverters of rating ≤ 10kVA
- USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners
- USB Type External Hard Disk Drive
- USB Type External Solid- State Storage Devices (above 256 GB capacity)
- Utility – Interconnected Photovoltaic inverters
- Visual display unit, video monitors
- Video Camera
- Webcam (finished product)
- Wireless Microphone
- Wireless Headphone and Earphone
- Wireless keyboards

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD's relationships with Indian regulators and national certification bodies help manufacturers comply with the BIS Certification Scheme and minimize time to market.

TUV SUD South Asia is the recognised laboratory of BIS with the capability to provide the testing service.



# India

## India conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical Safety	Bureau of Indian Standards (BIS) 	<ul style="list-style-type: none"> <li>BIS introduces a new scheme dated 16th March 2022, under schedule II which is named as "Scheme X".</li> <li>Under the Scope of "Scheme X" manufacturers will be granted the License for conformity of goods &amp; article or Products.</li> <li>The samples should be tested either <ul style="list-style-type: none"> <li>at BIS or BIS recognised laboratory, OR</li> <li>at in-house laboratory (including sub-contracted facilities) for witnessing completion by the BIS officer.</li> </ul> </li> <li>The licence to use Standard Mark shall initially be granted for not less than three years and upto six years.</li> <li>The Standard Mark is to be applied on the product as well as on the package.</li> </ul> 

### Applicable product categories

Product Covered under the Scheme X: Low – Voltage switchgear and controlgear

A full list of product categories may be found at [Scheme – X \(Certification\) - Bureau of Indian Standards \(bis.gov.in\)](#)

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Indian requirements and obtaining the necessary approval.

### GUIDELINES

#### Scheme-X proposes two procedures:

- Applicant can either get their sample tested in BIS Labs/BIS Approved 3rd party lab and approved BIS for certification.
- Witnessing of complete testing of the products intended for certification including the subcontracted facilities (if any) applied by the applicant.



# India

## India conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom 	Telecommunication Engineering Centre (TEC), Department of Telecommunications	<ul style="list-style-type: none"> <li>The Indian Telegraph (Amendment) Rules, 2017, provides that every telecom equipment must undergo mandatory testing and certification prior to sale, import or use in India.</li> <li>The equipment needs to be tested only in a designated CAB, or recognized CAB of MRA partner country.</li> <li>The issued certificate shall be valid for five years from the date of issue.</li> <li>Two certification schemes are defined:</li> <li>General Certification Scheme (GCS) — an application must be supported by test reports demonstrating conformity with the ER</li> <li>Simplified Certification Scheme (SCS) — application indicates test results where necessary and includes a Supplier Declaration of Conformity (SDoC)</li> <li>Product should bear TEC mark on the body of equipment before sale in India xxxxxxxxx denotes the certificate number issued by MTCTE portal(9 digit).</li> </ul> <p style="text-align: center;"> MTCTE: xxxxxxxxx</p>

## GUIDELINES

### MTCTE:

- Testing against TEC Essential Requirement(ERs)
- Evaluation of test results for ensuring conformance with TEC essential requirements.
- If equipment is found complaint with all applicable TEC ERs, a certificate will be issued by TEC.



# India

## India conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Wireless 	Wireless Planning and Coordination Wing (WPC), Ministry of Communications and IT Department of Telecommunications	<ul style="list-style-type: none"> <li>Type Approval (ETA) through Self-Declaration for Certain Categories of Wireless Equipment in License Exempt Bands, Policy 2018-19 was inforce since Feb. 26, 2019.</li> <li>ETA through self-declaration is permitted for commercial / finished products with low transmission power such as mobile / computing devices viz. as mobile handsets, smart phones, electronic notepads, laptops, smart watches, Short Range Devices including accessories, microphones, speakers, headphones, earphones, printers, scanners, cameras etc, operating in licensed exemption bands as permitted in India.</li> <li>A self-declaration from importer / authorized Indian representative may be treated as sufficient evidence to process such clearances by the Customs and Central Excise Authorities.</li> <li>New Frequency Allocation is required for use of wireless equipment in a new frequency band that needs to be allocated.</li> <li>Security testing is required for WiFi CPEs and IP Router.</li> </ul>

## GUIDELINES

### WPC:

- Application filing is done online with all the correct information and the respective category needs to be selected.
- An Application ID is provided after online submission
- A hard copy of the application will be submitted to the WPC office
- After verify the documents and information WPC authority will grant the license

## Applicable product categories

The product in the scope of METEC with ERs: <https://www.tec.gov.in/essential-requirements>

To determine if a particular product is subject to the above regulations, please contact us.

## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Indian requirements and obtaining the necessary approval.



# India

## India conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency and Environmental</b> 	Bureau of Energy Efficiency (BEE), Ministry of Power	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>The mandatory energy efficiency Star Label is required for certain products under the Standards &amp; Labelling Program (S&amp;L).</li> <li>Requirements for each product are specified in its schedule.</li> <li>From 1st January 2020, the default setting temperature in Room Air Conditioners at 24 degrees Celsius must be present of fresh model registration applications.</li> </ul>  <p><b>RoHS:</b></p> <ul style="list-style-type: none"> <li>The Indian government has published E-Waste (Management) Rules, 2016, and it shall come into force from the 1st day of October, 2016.</li> </ul>

## GUIDELINES

- Manufacturers are required to register themselves for the Standards & Labelling Program and file an e-application for the Star Label.
- Equipment required to be labelled are listed on the BEE website.

#### **Applicable product categories**

Product categories under the mandatory energy efficiency scheme include:

- Ceiling fans
- Chillers
- Color TV
- Deep Freezers
- Direct cool refrigerator
- Distribution transformers
- LED lamps
- Light Commercial AC Fixed Speed
- Frost-free refrigerators
- Room Air Conditioners (Cassette, Floor Standing Tower, Ceiling, Corner AC)
- Room air conditioner (fixed speed)
- Room air conditioner (variable speed)
- Stationary storage type electric water heaters
- Tubular florescent lamps
- Ultra-High Definition (UHD) Televisions
- Washing Machine (Semi/Top Load/Front Load)

A full list of product categories may be found at <https://beeindia.gov.in/en/programmes/standards-labeling>

QR code is mandatory to be affixed along with the Star Label for Frost Free and Direct Cool Refrigerators.

QR code on voluntary basis is implemented for appliances covered under Standards & Labelling (S&L) program of BEE except Frost Free and Direct Cool Refrigerators.

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Indian requirements and obtaining the necessary approval.

TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.

# Indonesia

## Indonesia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	National Standardization Agency of Indonesia 	<ul style="list-style-type: none"> <li>Both Ministries each regulate a list of electrical and electronic equipment.</li> <li>Importer/Manufacturer who possesses NPB shall affix the NPB underneath SNI mark and/or other recognized conformity mark, onto their products or packages. Example as,</li> </ul>  <ul style="list-style-type: none"> <li>K3L Product Registration under Indonesia Ministry of Trade (MoT) is mandatory for certain products.</li> <li>Product testing by accredited in-country test laboratory and factory quality system control is required.</li> <li>Certificates should be issued by an accredited CB.</li> <li>Compliance with Indonesia National Standards (SNI).</li> </ul>

### General specifications

Voltage	230V (Single Phase); 400V (Three Phase)
Frequency	50Hz
Manual Language	Bahasa Indonesia/English
Plug Type	C/F

### GUIDELINES

#### Certification procedure:<sup>\*</sup>

##### SNI:

- Submission of application and essential documents.
- Product testing by random sampling.
- Factory inspection.
- Obtain certification.
- Appropriate usage of SNI Mark.

##### K3L:

- Importers/Local producers shall apply for K3L Product Registration by themselves and later receive a Letter of Registration issued by MoT, after that the related registration number shall be labeled on the products, packaging and/or labels that are easily read

#### **Applicable product categories**

SNI product list can be found at <http://sispk.bsn.go.id/RegulasiTeknis/SniWajib>.

K3L product list can be found at <http://jdih.kemendag.go.id/peraturan/detail/1766/2>.

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Indonesian requirements and obtaining the necessary approval.

- \* 1. Prior to apply for SNI certificate, the trademark shall be registered in Indonesia.
- 2. A Certificate of Conformity (CoC) shall be issued for products tested to comply with SNI XXX and having passed the Factory Surveillance successfully. This CoC is known as SPPT-SNI.
- 3. After SPPT-SNI (COC) issued, Goods Registration Letter (SPB) application shall be submitted to the Director General of Foreign by the importer.
- 4. A SPB will include NPB (Goods Registration Number). SPB shall be obtained for every import activity.

# Indonesia

## Indonesia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Directorate General of Posts and Informatics Resources (SDPPI)	<ul style="list-style-type: none"> <li>Certification by type approval of regulated products is required.</li> <li>Product testing should be performed by an in-country test laboratory.*</li> <li>Communication and Informatics Ministry Regulation Number 7 of 2018 (PM Kominfo No 7 Tahun 2018) certification is issued by SDPPI.</li> <li>Products must be marked with SDPPI label, warning and QR code. All devices are required to affix warning sign label on the product.</li> </ul> <div style="display: flex; align-items: center; justify-content: space-around;"> <div style="text-align: center;"> <span>[ certificate no. ]</span>  <span>[ PLG.ID no. ]</span> </div> <div>  </div> </div> <ul style="list-style-type: none"> <li>The product label photo must be upload within 30 days after the certificate issued.</li> <li>SAR limitations are required for cellular phones and tablet computers.</li> </ul>

## GUIDELINES

### Certification procedure:

- Submission of application. The applicant needs to be a local company. The applicant should apply for Online Single Submission(OSS)system by their Business License Number(NIB).
- Proceed to test in SDPPI-accredited test Lab, which could be in-country SDPPI-accredited test lab or foreign SDPPI-accredited test Lab.
- Approval of certification.
- Product labelling as appropriate.

## Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Indonesian requirements and obtaining the necessary approval.

\* Testing report of the telecommunications devices except for mobile phone, handheld computers and tablet which is issued by TUV SUD is accepted for SDPPI application until end of 2021. All Oversea Test report are mandatory to provide Summary of the result according to SDPPI technical requirements.

# Indonesia

## Indonesia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS	GUIDELINES
<b>Energy Efficiency</b> 	Ministry of Energy and Mineral Resources of Republic of Indonesia (MEMR)	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>Mandatory MEPS and energy label for controlled E&amp;E equipments:           <ul style="list-style-type: none"> <li>Application of Minimum Energy Performace Standards for Energy Consuming Appliances and Equipment (MEMR Regulation No.14/2021)</li> <li>Air conditioner - MEMR Decision No. 103, 2021</li> <li>Fans - MEMR Decision No. 114, 2021</li> <li>Refrigerator - MEMR Decision No. 113, 2021</li> <li>Rice cooker - MEMR Decision No. 115, 2021</li> </ul> </li> <li>The energy label shall be affixed on the product after certification.</li> </ul> 	<p><b>Certification procedure:</b>*</p> <ul style="list-style-type: none"> <li>Submission of application. The applicant needs to be a local company.</li> <li>Testing in lab which is accredited by KAN or designated labs.</li> <li>Approval of certification.</li> <li>Product labelling as appropriate.</li> </ul>

### Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Indonesian requirements and obtaining the necessary approval.

\* After test report issued, the manufacturer or importer must issue a written DoC stating his products comply with the relevant standard and submit to MEMR before labeling. Otherwise, it's not allowed to import into Indonesia.



# Japan

## Japan conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Ministry of Economy, Trade and Industry (METI) 	<ul style="list-style-type: none"> <li>The PSE Mark is a mandatory safety mark under DENAN Law.</li> <li>Testing by an accredited test laboratory is required.</li> <li>Category A: Specified electrical appliances and materials must be marked with the Diamond PSE Mark. Products require factory inspection and certification by a RCAB.</li> </ul>  <ul style="list-style-type: none"> <li>Category B: Non-specified electrical appliances and materials must be marked with the Circle PSE Mark. Products do not require CAB certification.</li> </ul>  <p><b>EMC:</b></p> <ul style="list-style-type: none"> <li>EMC compliance is required for the above, where applicable.</li> </ul>

### General specifications

Voltage	100V (Single Phase); 200V (Three Phase)
Frequency	50/60Hz
Manual Language	Japanese
Plug Type	A/B

### GUIDELINES

- A local importer or “Notifying Supplier” is required when exporting electrical devices to Japan.

**Notifying Suppliers are responsible for:**

- Submitting the Business Commencement Report.
- Confirming that the products comply with DENAN or IEC standards.
- Affixing the PSE Mark as applicable.
- Submitting product inspection records to METI upon request, etc.

**Manufacturers are responsible for:**

- Conducting product inspection.
- Maintaining test equipments.
- Maintaining the product inspection records for 3 years, etc.

#### **Applicable product categories**

The PSE Mark Category A consists of 116 items such as cables and cords, thermal fuses, battery charges, DC power supply units, etc.

The PSE Mark Category B consists of 341 items such as electric irons, vacuum cleaners, washing machines, microwave ovens, television receivers, etc.

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Japanese requirements and obtaining the necessary approval.

TÜV SÜD is a Recognised Conformity Assessment Body (RCAB) with the capability to issue the CoC for all 341 items of Category B products and 7 groups of the Category A specified products.



# Japan

## Japan conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Ministry of Internal Affairs and Communications (MIC)	<ul style="list-style-type: none"> <li>Manufacturers must seek an Independent MIC RCAB to certify conformity and obtain the MIC Mark**.</li> </ul>  <ul style="list-style-type: none"> <li>Terminal equipment is divided into 2 categories – Terminal equipment for the purpose of calls and other terminal equipment.</li> <li>Radio equipment is divided into 3 categories according to legal effects – Unlicensed station, licensed station (blanket license) and licensed station (subject to simplified licensing procedure or registration).</li> </ul>
EMC	VCCI Council	<ul style="list-style-type: none"> <li>IT equipment should comply with EMC requirements under Regulations for Voluntary Control Measures*.</li> <li>Equipment intended for the domestic environment must comply with the Class B requirements, while other equipment should satisfy the Class A requirements.</li> <li>Test reports need to be obtained from test laboratories that are registered with VCCI.</li> <li>Testing for compliance with CISPR 22.</li> </ul>

### GUIDELINES

#### Telecom & wireless approval procedure:

- Application.
- Product testing.
- Pre-license procedures.
- Inspection.
- Issuance of license.
- The approval process also depends on the category in which the product falls under.

#### EMC approval procedure:

- Register and become a member of VCCI.
- Obtain test report.
- Submit Conformity Verification Report.
- Upon approval, label products accordingly.

### Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Japanese requirements and obtaining the necessary approval.

As a MIC RCB, TÜV SÜD is able to perform testing and issue/obtain certification for manufacturers.

\* Although not mandatory, it is widely supported by the Japanese industry and increasingly perceived as an indication of product quality and is highly recommended for marketing reasons.

\*\* MIC issued amendments on Feb. 8, 2019 to revise the indication or display method of the technical conformity mark and softened the size requirement for the conformity mark. It has been 3 mm or greater and now it is changed to "the size which allows anyone to distinguish the mark easily." The MIC also established provisions for the display of the required information using an external display.



# Japan

## Japan conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency and Environmental</b> 	The Energy Conservation Center, Japan (ECCJ)	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>Products need to comply with the standards laid out by the Energy Conservation Law which is also the basis for the Top Runner Program and the Energy-saving Labelling Program*.</li> <li>Business operators, constructors of non-residential buildings and transportation carriers also need to plan and report the status of their energy utilisation.</li> </ul>
	Japan Electronics and Information Technology Industries Association	<p><b>WEEE &amp; RoHS:</b></p> <ul style="list-style-type: none"> <li>Compliance with J-MOSS which requires marking the presence of the specific chemical substances for electrical and electronic appliances (similar to EU RoHS).</li> <li>Compliance with the Law for Recycling of Specified Kinds of Home Appliances; manufacturers are required to collect and finance recycling of their own appliances.</li> </ul>

### GUIDELINES

- Under the Top Runner Program, manufacturers are required to surpass a weighted average value for all their products per category for each predetermined target year.
- Companies that sell a limited number of products in the market can designate other organisations to fulfil collection and recycling responsibilities on their behalf.

\* Although a voluntary program, Energy-saving Labels are actively utilised in Japan and are recommended for marketing reasons.

### Applicable product categories

Applicable products under the Top Runner Program include:

- Air conditioners
- Computers
- Copying machines, Printers, Multifunction Devices
- DVD recorders
- Electric freezers
- Electric refrigerators
- Electric rice cookers
- Electric toilet seats
- Fluorescent lights
- Freight vehicles
- Gas cooking appliances
- Gas water heaters
- Magnetic discs units
- Microwaves
- Oil water heaters
- Passenger vehicles
- Space heaters
- Television sets
- Transformers
- Vending machines
- Video-cassette recorders

Applicable product categories under the Energy-saving Labelling Program include:

- Air conditioners
- Computers
- DVD recorders
- Electric toilet seats
- Fluorescent lights
- Freezers
- Gas cooking appliances
- Gas water heaters
- Magnetic disks
- Microwave ovens
- Oil water heaters
- Refrigerators
- Rice cookers
- Space heaters
- Transformers
- Television sets

Applicable product categories under the J-Moss include:

- Clothes dryers
- Microwaves
- Personal computers
- Refrigerators
- Television sets
- Unit-type air conditioners
- Washing machines

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Japanese requirements and obtaining the necessary approval. TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.



# Korea (South)

## Korea (South) conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Korean Agency for Technology and Standards (KATS)	<ul style="list-style-type: none"> <li>All products subject to legally compulsory certification are required to affix the KC Mark.</li> </ul> 
EMC		<p><b>Products are categorised into 2 groups:</b></p> <ul style="list-style-type: none"> <li>Type 1 products require certification by a designated CB.</li> <li>Type 2 products fall under a self-regulatory safety confirmation scheme.</li> <li>Compliance with K standards.</li> </ul> <p><b>EMC:</b></p> <ul style="list-style-type: none"> <li>EMC compliance is required for the above, where applicable.</li> </ul>

### General specifications

Voltage	110V / 220V (Single Phase); 380V (Three Phase)
Frequency	60Hz
Manual Language	Korean/English
Plug Type	C/F

### GUIDELINES

#### Certification procedure for Type 1 products:

- Submission of application along with other essential documents.
- Factory inspection.
- Product testing.
- Issuance of certificate by the designated CB.
- Compliance procedure for Type 2 is the same except that the factory inspection is exempted and a Confirmation Letter of Declaration is needed in place of certification.

#### **Applicable product categories**

Only electrical apparatus using AC 50V up to 1000V are subject to KC Mark certification.

Product categories (may consist both Type 1 & 2) requiring KC Mark include:

- Audio, video and similar electronic appliances
- Cables and cords
- Capacitors or filters as components for power supply units
- Household and similar electrical appliances
- Installation accessories and connection devices
- Installation protective equipment
- IT and office appliances
- Lighting
- Motor tools
- Safety transformers and similar equipment
- Switches for electrical appliances

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Korean requirements and obtaining the necessary approval.

TÜV SÜD is an MOU partner of the Korea Testing Laboratory (KTL). Test reports issued by TÜV SÜD are thus acceptable to KTL for issuance of the KC Mark.



# Korea (South)

## Korea (South) conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	National Radio Research Agency (RRA)	<ul style="list-style-type: none"> <li>Applicable products are required to be certified and affixed with the KC Mark.</li> <li>Type approval is required for terminal equipment. For radio facilities and equipment, it is necessary to obtain either type verification or type registration depending on the product. Type verification test should only be conducted by the Radio Research Agency (RRA).</li> </ul> <p><b>EMC:</b></p> <ul style="list-style-type: none"> <li>EMC registration is required for IT equipment.</li> </ul>

### GUIDELINES

- A local representative is required.

#### KC Mark procedure:

- Apply for testing at designated test laboratory.
- Apply for certification.
- Submit essential documents.
- Obtain certification.
- Affix KC Mark on product.

### Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Korean requirements and obtaining the necessary approval.



# Korea (South)

## Korea (South) conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency and Environmental</b> 	Korea Energy Management Corporation (KEMCO)	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>Minimum Energy Performance Standards (MEPS) is mandatory energy efficient standards system developed to promote energy conservation. The products that do not meet MEPS are banned from production and sales. Non-compliance of this system would result in penalties.</li> <li>The devices that are automatically switched to energy saving mode, minimises standby power and meet the standby power reduction standards are allowed to bear energy saving label. Those that do not meet the standards must bear warning labels.</li> <li>High-efficiency Appliance Certification is for products that meet certain level of energy efficiency standard. This program is on a voluntary basis and aims to develop energy efficiency technology and to promote high-efficiency equipment.</li> </ul>
	Ministry of Environment (MOE)	<p><b>RoHS &amp; WEEE:</b></p> <ul style="list-style-type: none"> <li>Compliance based on the Act on the Recycling of Electrical and Electronic Equipment and Automobiles.</li> <li>Notification is required.</li> </ul>

## GUIDELINES

- Testing for energy efficiency labelling must be performed by designated test laboratories, mostly in-country.
- Reporting should be made to KEMCO.
- There is a regulated recycling ratio and listed banned hazardous substances.
- Similar to European WEEE, RoHS and ELV.

**Applicable product categories**

Target of High-efficiency Appliance Certification: [https://dco.energy.or.kr/renew\\_eng/energy/appliances/certification.aspx](https://dco.energy.or.kr/renew_eng/energy/appliances/certification.aspx)

Target of MEPS program: [https://dco.energy.or.kr/renew\\_eng/energy/appliances/labeling.aspx](https://dco.energy.or.kr/renew_eng/energy/appliances/labeling.aspx)

Target of the e-Standby program: [https://dco.energy.or.kr/renew\\_eng/energy/appliances/program.aspx](https://dco.energy.or.kr/renew_eng/energy/appliances/program.aspx)

To determine if a particular product is subject to the above regulations, please contact us.

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Korean requirements and obtaining the necessary approval.

TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.



# Malaysia

## Malaysia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	The Energy Commission, Suruhanjaya Tenaga (ST)  	<ul style="list-style-type: none"> <li>The Electrical Supply Act 1990 and Electrical Regulation 1994 require manufacturers to apply for Certificate of Approval (COA) and affix the product with the SIRIM Label or certification mark.</li> </ul> <div style="display: flex; justify-content: space-around;">   </div> <p><b>Standards accepted by ST:</b></p> <ul style="list-style-type: none"> <li>Test report with or equivalent to Malaysia Standards (MS) issued by a DSM recognised laboratory.</li> <li>CB test report and certificate.</li> <li>Reports by laboratories that are accredited by DSM, ILAC, APLAC, etc.</li> <li>Guideline on test report validity of electrical equipment based on risk of electrical equipment identified by the Energy Commission.             <ol style="list-style-type: none"> <li>When applying CoA, for high risk equipment, the origin test report shall be valid for not less than 1 year and not exceeding 5 years from the date of test report.</li> <li>When applying CoA, for low risk equipment, validity of test report exceeding 5 years is acceptable.</li> </ol> </li> </ul>

### General specifications

Voltage	230V (Single Phase); 400V (Three Phase)
Frequency	50Hz
Manual Language	Malay/English
Plug Type	A/C/G/M

### GUIDELINES

- Application must be made by the local importer.
- Manufacturers should obtain COA from ST before applying for SIRIM Label or certification mark.
- The SIRIM Label can be obtained through the SIRIM Product Certification Scheme (PCS) or Batch Testing Scheme (BTS).

#### **Applicable product categories**

Product categories requiring SIRIM Label include:

- Circuit breakers
- Domestic power tools
- Household appliances
- Lighting
- Plug tops/Plugs
- Socket outlets
- Switches and dimmers
- Wires/Cables/Cords
- Etc.

A full list of product categories may be found at [https://www.st.gov.my/contents/files/download/158/LIST\\_OF\\_REGULATED\\_ELECTRICAL\\_EQUIPMENT\\_250718.pdf](https://www.st.gov.my/contents/files/download/158/LIST_OF_REGULATED_ELECTRICAL_EQUIPMENT_250718.pdf)

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Malaysian requirements and obtaining the necessary approval.

TÜV SÜD PSB Pte Ltd have been designated as a Certification Body for Malaysia on 16 April 2014 under the ASEAN EE MRA.



# Malaysia

## Malaysia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Malaysian Communications and Multimedia Commission (MCMC)	<ul style="list-style-type: none"> <li>Type approval is required for fixed line and wireless telecommunications products.</li> <li>SIRIM QAS International is the designated CB.</li> <li>Products must be marked with Self-labelling.</li> </ul> <p> ABCD12345678</p> <p><b>EMC:</b></p> <ul style="list-style-type: none"> <li>EMC compliance is required for the above, where applicable.</li> </ul>

## GUIDELINES

- Application must be made by the local importer.
- Two samples are required for physical inspection. Upon approval, products should be labelled with the SIRIM Label accordingly.
- Start from 11th February 2019, SIRIM CMCS (Wireless division) implemented electronic Certificate of Conformity or eCOC. It replaces the current method where a hard copy certificate is issued and certificate holder needs to collect the certificate from SIRIM counter.

#### **Applicable product categories**

Regulated telecom equipment include:

- Analogue Calling Line Identity Presentation (ACLIP) facility for connection to PSTN
- Asymmetric Digital Subscriber Line (ADSL) transceivers
- Connecting to the Integrated Services Digital Network (ISDN) using basic access
- Connecting to the ISDN using primary rate access
- Cordless telephone systems
- Low frequency cables and wires with PVC insulation and PVC sheath
- Overvoltage protective devices
- Private Automatic Branch Exchange (PABX) system for connection to PSTN
- Terminal equipment for Connecting to Public Switch Telephone Network (PSTN)

Regulated wireless equipment include:

- Amateur radio equipment
- Broadband Wireless Access (BWA) Equipment
- GSM mobile terminals
- IMT-2000 Third-Generation (3G) cellular mobile terminals
- Land mobile radio equipment
- Short Range Devices (SRD)

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

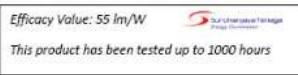
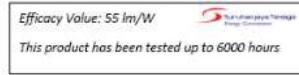
TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Malaysian requirements and obtaining the necessary approval.

TÜV SÜD PSB Pte Ltd have been designated as a Certification Body for Malaysia on 16 April 2014 under the ASEAN EE MRA.



# Malaysia

## Malaysia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Energy Efficiency 	The Energy Commission, Suruhanjaya Tenaga (ST)	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>Based on Electricity Regulation 1994 (Amendments 2013)           <ul style="list-style-type: none"> <li>The products in the scope shall be affixed with an efficiency rating label.</li> </ul> </li> </ul>  <ul style="list-style-type: none"> <li>The Certificate of Approval (COA) should be obtained for certain products under Minimum Energy Performance Standards (MEPS).</li> <li>For LED lamps, the applicant is required to state the Efficacy value onto the packaging of the product together with the number of hours the LED has been tested.</li> </ul> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>i) After completing first 1,000 hours test</p>  <p>Efficacy Value: 55 lm/W Suruhanjaya Tenaga Energy Commission This product has been tested up to 1000 hours</p> </div> <div style="text-align: center;"> <p>ii) After completing 6,000 hours test</p>  <p>Efficacy Value: 55 lm/W Suruhanjaya Tenaga Energy Commission This product has been tested up to 6000 hours</p> </div> </div>

## GUIDELINES

- Applications should be made to ST.
- Performance testing, where applicable, should be done by SIRIM QAS International or any laboratory recognised by Standard Malaysia.

#### **Applicable product categories**

The products in the scope of MEPS:

- Air Conditioner
- Domestic Fan
- Electric Oven
- Freezer
- Lamps
- Microwave Oven
- Refrigerator
- Rice Cooker
- Television
- Washing Machine

The products in the scope of Energy Efficiency Label:

- Air Conditioner
- Domestic Fan
- Electric Oven
- Electric Rice Cooker
- Freezer
- Microwave Oven
- Refrigerator
- Television
- Washing Machine

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Malaysia requirements and obtaining the necessary approval.

We are able to support you in meeting Malaysia's energy efficiency requirements and our test reports are well accepted globally.



# Mongolia

## Mongolia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Mongolian Agency of Standardisation and Metrology (MASM) 	<ul style="list-style-type: none"> <li>There is no safety certification scheme in Mongolia, but product needs to comply to Mongolia safety/EMC requirements which is harmonized to the EN standard.</li> </ul>

General specifications	
Voltage	220V (Single Phase)
Frequency	50Hz
Manual Language	Mongolian
Plug Type	C/E

## Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Mongolian requirements and obtaining the necessary approval.



# Mongolia

## Mongolia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Communications Regulatory Committee (CRC)	<ul style="list-style-type: none"> <li>On Aug. 19th, 2019 Communications Regulatory Commission of Mongolia (CRC) issued Resolution No. 29 regarding the Type Approval Regulatory guidelines for Information and Communication equipment.</li> <li>Products must be marked with the Conformity marking.</li> </ul> <div style="text-align: center;">             ID:AYYYYYYY         </div>

### GUIDELINES

- A local representative is required.
- The validity period of the conformity certification will be issued for up to 3 years. The length of the validity period will consider the validity of the equipment's technical document and the quality management systems documents.

### Applicable product categories

Mandatory certification is required for radio and communication equipment:

- Base stations
- Line telephone sets with cordless handsets
- Multiplexers, transmitters, receivers, converters
- Other apparatus for the transmission or reception of voice, images or other data, including apparatus for communication in a wired or wireless network (such as a local or wide area network)
- Radar apparatus
- Radio navigational aid apparatus
- Radio remote control apparatus.
- Radio-broadcast receivers not capable of operating without an external source of power, of a kind used in motor vehicles.
- Reception apparatus for television, whether or not incorporating radio-broadcast receivers or sound or video recording or reproducing apparatus.
- Telephones for cellular networks or for other wireless networks as SRD, BT etc.
- Telephone sets, including telephones for cellular networks or for other wireless networks;
- Transmission apparatus for radio-broadcasting or television, whether or not incorporating reception apparatus or sound recording or reproducing apparatus; television cameras, digital cameras and video camera recorders.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Mongolian requirements and obtaining the necessary approval.



# Mongolia

## Mongolia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency</b> 	Mongolian Ministry of Environment and Green Development	<ul style="list-style-type: none"><li>There are currently no environmental requirements in Mongolia.</li></ul>

### TÜV SÜD solutions

TÜV SÜD can support manufacturers in obtaining voluntary endorsement labels.



# Philippines

## Philippines conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Bureau of Product Standards (BPS), Department of Trade and Industry (DTI) 	<ul style="list-style-type: none"> <li>The BPS implements two Mandatory Product Certification Schemes: the Philippine Standard (PS) Quality and/or Safety Certification Mark Licensing Scheme and the Import Commodity Clearance (ICC) Certification Scheme. Products covered by the mandatory certification, whether locally manufactured or imported, are not allowed to be distributed in the Philippine market without the necessary PS or ICC marks.</li> <li>The PS Mark and ICC Sticker affixed to the products serve as the consumer's assurance that the products they purchase are certified by the BPS.</li> </ul> <div style="text-align: center;">           • Compliance with Philippine National Standards (PNS).     </div>

### General specifications

Voltage	230V (Single Phase); 380V (Three Phase)
Frequency	60Hz
Manual Language	Filipino/English
Plug Type	A/B/C

### GUIDELINES

- A local representative is required.

**PS Certification procedure:**

- Application.
- Factory and product audit.
- Third-party independent testing.
- Test report evaluation.
- License to use PS mark.
- Surveillance.

**ICC Certification procedure:**

- Application.
- Inspection and testing by a BPS accredited test laboratory (not required if the applicant has a foreign test report).
- Evaluation.
- Issuance of ICC.

**Applicable product categories**

A full list of product categories may be found at <http://www.bps.dti.gov.ph/index.php/product-certification/list-of-products-under-mandatory-certification>

To determine if a particular product is subject to the above regulations, please contact us.

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Philippines requirements and obtaining the necessary approval.

As a listed testing laboratory for Philippines under the ASEAN EE MRA, test reports issued from recognised TÜV SÜD laboratories are accepted by BPS for application of the ICC.



# Philippines

## Philippines conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	National Telecommunications Commission (NTC)	<ul style="list-style-type: none"> <li>Terminal Equipment, or Customer Premises Equipment (CPE) and Radio Communications Equipment (RCE) require certification by NTC.</li> <li>CPEs require type approval while RCEs require type acceptance.</li> <li>Testing of all CPEs should be performed by the Philippines Long Distance Telecommunications (PLDT) Company.</li> <li>For RCEs, test reports based on EN and FCC standards are accepted.</li> <li>Products must be marked with the NTC Mark.</li> </ul> <p></p> <p><b>EMC:</b></p> <ul style="list-style-type: none"> <li>EMC compliance is required for the above, where applicable.</li> </ul>

### GUIDELINES

- A local representative is required.
- Suppliers of CPE must be accredited by the NTC while RCE dealers require a permit.

### Certification procedure:

- Application and submission of essential documents.
- In-country product testing (not required for RCEs).
- Evaluation.
- Type approval/acceptance.

### Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Philippines requirements and obtaining the necessary approval. TÜV SÜD can also perform testing to EN and FCC standards for RCEs.



# Philippines

## Philippines conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Energy Efficiency	Department of Energy Philippines (DOE)	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>• Philippine Energy Labeling Program (PELP) for Energy-Consuming Products set forth based on DC 2020-06-0015</li> <li>• Registrable goods must be affixed with the Energy Label</li> </ul> 

### GUIDELINES

#### PELP Registration Procedure:

- Company registration
- Product registration
- Label issuance
- Attach Energy Label

### Applicable product categories

Product categories that require mandatory Philippine Energy Labeling Program cover appliances such as Air Conditioners, Refrigerating Appliances, Television Sets, Electric Fan, Clothes Washing Machine and Lighting Products, such as Self-Ballasted Compact Fluorescent Lamps (CFL), Linear Fluorescent Lamps (LFL) or Double-Capped Fluorescent Lamps (DFL), Single-Capped Fluorescent Lamps (SFL), Lamp Ballasts and Light Emitting Diode (LED) lamps.

A full list of products covered by PELP may be found at <https://www.doe.gov.ph/pelp?q=pelp/coverage>. To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Philippines requirements and obtaining the necessary approval. TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.



# Singapore

## Singapore conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Consumer Product Safety Office (CPSO)	<p></p> <ul style="list-style-type: none"> <li>The Consumer Protection (Safety Requirements) Regulations (CPSR) requires 33 categories Controlled Goods, to be registered with the Consumer Product Safety Office (CPSO), and must bear the Safety Mark.</li> </ul> <div style="text-align: center;">   <b>1 2 3 4 5 6 - 0 0</b> </div> <ul style="list-style-type: none"> <li>All suppliers of Controlled Goods for consumers in Singapore must first be registered with the Safety Authority as Registered Suppliers. Registered Suppliers are required to register each model of Controlled Goods with the Safety Authority. The registration must be supported with COC issued by designated CABs located in Singapore or in Singapore's MRA partners, i.e. CABs (Certification/ Testing), or SDoC declared by Registered Suppliers.</li> <li>Registration of Controlled Goods under the Consumer Protection (Safety Requirements) Regulations is based on Certificate of Conformity (CoC) issued by designated third party Conformity Assessment Bodies (CABs), or Supplier's Declaration of Conformity (SDoC) declared by Registered Suppliers.</li> <li>CPSO categorised the Controlled Goods into three risk levels - Low, Medium, or High. <ul style="list-style-type: none"> <li>Low Risk: Type testing+SDoC</li> <li>Medium Risk: Type testing + CoC</li> <li>High Risk: Type testing + CoC+high risk requirement for renewal</li> </ul> </li> </ul>

### General specifications

Voltage	230V (Single Phase); 400V (Three Phase)
Frequency	50Hz
Manual Language	English
Plug Type	C/G/M

### GUIDELINES

#### Low Risk:

- Supplier applies to CPSO to be a Registered Supplier
- Supplier to obtain valid test report
- Supplier to provide SDoC
- Controlled Goods is registered with the CPSO upon receiving the LOA
- Registered Supplier affixes the SAFETY MARK

#### Medium and High Risk:

- Supplier applies to CPSO to be a Registered Supplier
- Supplier to obtain certification through CAB
- Controlled Goods is registered with the CPSO upon receiving the LOA
- Registered Supplier affixes the SAFETY MARK

#### **Applicable product categories**

Low Risk: Air cooler, Fuse, Room air-conditioner, Table lamp/standing lamp

Medium Risk: AC Adaptors, Audio and video products, Coffee maker, Decorative lighting chain, Fans, Iron, Lamp control gears etc

High Risk: Components of the liquefied petroleum gas system, Domestic electric wall switch, Gas cooking appliances, Main socket-outlets, Refrigerator, Water heaters

A full list of product categories may be found at <https://www.consumerproductsafety.gov.sg/suppliers/cpsr/list-of-controlled-goods>

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Singaporean requirements and obtaining the necessary approval. TÜV SÜD is designated as a CAB by CPSO to issue CoC under CPSR scheme.

\* The Consumer Protection (Consumer Goods Safety Requirements) Regulations (CGSR) aims to protect consumers from unsafe general consumer goods such as toys, children's products, apparel, sports and recreation products, furniture, mattresses and bedding and DIY tools.



# Singapore

## Singapore conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Info-communications Media Development Authority of Singapore (IMDA)  	<ul style="list-style-type: none"> <li>Telecommunication equipment has to be registered with the IMDA before the equipment is offered for sale and use in Singapore.</li> <li>There are 3 schemes under the equipment registration framework:           <ul style="list-style-type: none"> <li><b>Enhanced Simplified Equipment Registration (ESER)</b> – Online registration to indicate conformity based on the suppliers' own conformity assessment*.</li> <li><b>Simplified Equipment Registration (SER)</b> – Self-declaration of conformity based on the suppliers' own conformity assessment*.</li> <li><b>General Equipment Registration (GER)</b> – Declaration** certified by an IMDA recognised CB or declaration evaluated by IMDA.</li> </ul> </li> <li>Products must be marked with compliance label.</li> </ul> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>Complies with IMDA Standards [Dealer's Licence No.]</b> </div> <p><b>EMC:</b></p> <ul style="list-style-type: none"> <li>EMC compliance is required for the above, where applicable.</li> </ul>

## GUIDELINES

- A registered Singapore company is required to obtain a Dealer's License.

### Equipment registration procedure:

- Online Equipment Registration.
- ESER** – Submit self-declaration and essential documents and complete online registration.
- SER** – Complete self-declaration and submit essential documents. IMDA will verify information submitted.
- GER** – Submit certificate issued by recognised CB and essential documents or submit test results/reports and essential documents for approval.

#### **Applicable product categories**

Equipment categories which can be registered under ESER Scheme:

- Complex/Multi-line equipment
- Short range/Low power devices

Mandatory equipment categories under SER Scheme:

- Mobile terminals
- Broadband access equipment
- Integrated receiver decoders for use with 2<sup>nd</sup> generation digital terrestrial television broadcasting systems

Mandatory equipment categories under GER Scheme:

- Land mobile radio
- Mobile base stations
- Radio pager
- Short range devices, where the operation requires IMDA approval
- Ultra-wideband
- Wireless broadband access

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Singaporean requirements and obtaining the necessary approval. As a designated CB, TÜV SÜD's test reports and Certificate of Conformity is accepted for IMDA approval.



# Singapore

## Singapore conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency and Environmental</b>	National Environment Agency (NEA)	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>Registrable goods must be affixed with the Energy Label, after the NEA has issued the Certificate of Registration (COR) for the model.</li> </ul>  <p><b>Mandatory Energy Labelling (MELS) and Minimum Energy Performance Standards (MEPS) for household appliances</b></p> <p><b>RoHS:</b></p> <ul style="list-style-type: none"> <li>The controls for SG-RoHS came into effect on 1st June 2017.</li> <li>The control measures under the SG-RoHS are:           <ol style="list-style-type: none"> <li>Lead(Pb);</li> <li>Mercury(Hg);</li> <li>Hexavalent chromium(Cr VI);</li> <li>Polybrominated biphenyls (PBBs);</li> <li>Polybrominated diphenyl ethers (PBDEs);</li> <li>Cadmium(Cd).</li> </ol> </li> </ul>

## GUIDELINES

- Registration of suppliers
- The test laboratories carry out the test in accordance with the relevant test standards.
- NEA issues the Certificate of Registration (COR) for the model.
- Registered suppliers supplying regulated goods must affix the Energy Label on the units that they supply in Singapore. Energy labels shall be displayed in all print and digital materials.
- The registered supplier must also register the regulated goods before supplying the goods in Singapore.



# Singapore

## Singapore conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Energy Efficiency and Environmental	E-waste	<p><b>E-waste:</b></p> <ul style="list-style-type: none"> <li>• The Resource Sustainability Act(RSA) provides the legal framework for the implementation of a regulated management system E-waste.</li> <li>• The RSA will make it mandatory for all manufacturers or importers of the regulated products             <ul style="list-style-type: none"> <li>a. be registered with the NEA as a producer</li> <li>b. keep records of the weight and number of all regulated products supplied to the Singapore market and submit such records to the NEA</li> <li>c. make available for inspection by an authorised officer, the records mentioned in b) above when so requested by an authorised officer</li> </ul> </li> </ul>

### Applicable product categories

Energy Efficiency: Registrable goods include room air conditioners, refrigerators, clothes dryers, single-phase television sets, ballast for fluorescent lamp induction motor and lamps Water heaters and commercial storage refrigerators will be mandatory from 1 April 2025..

RoHS: Controlled goods includes mobile phones, portable computers, refrigerators, air conditioners, panel TVs and washing machines.

E-waste: Controlled categories includes ICT equipment, large appliances, batteries, lamps, solar photovoltaic panels.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Singaporean requirements and obtaining the necessary approval.

TÜV SÜD is accredited by the Singapore Accreditation Council (SAC) to perform testing to the applicable test standards, and is able to support suppliers in registration.

TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.



# Taiwan

## Taiwan conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Bureau of Standards, Metrology and Inspection (BSMI), Ministry of Economic Affairs (MOEA) 	<ul style="list-style-type: none"> <li>The BSMI Safety Mark is mandatory for electrical and electronic products under the Commodity Inspection Act.</li> </ul> <div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>There are 4 inspection schemes which require compliance with product inspection requirements:             <ul style="list-style-type: none"> <li>Type approval batch inspection (TAB)</li> <li>Monitoring inspection (MI)</li> <li>Registration of product certification (RPC)*</li> <li>DoC</li> </ul> </li> <li>The choice of the appropriate conformity assessment procedure depends on the product characteristics as well as other factors.</li> <li>Compliance with Chinese National Standards (CNS).</li> <li>Testing should be done by BSMI or designated test laboratories.</li> </ul> <p><b>EMC:</b></p> <ul style="list-style-type: none"> <li>EMC compliance is required for the above, where applicable.</li> </ul>

\* The RPC scheme is broken down into 7 modules of assessment and requires manufacturers to comply with any one or a combination of these modules. 3C secondary lithium cells/batteries and power banks are mandatory to be included under the RPC scheme from 1 May 2014.

## General specifications

Voltage	110V (Single Phase); 190V (Three Phase)
Frequency	60Hz
Manual Language	Traditional Chinese
Plug Type	A/B

## GUIDELINES

- Applicants must be a registered company in Taiwan.
- QR code should be applied before the product safety inspection certificate is issued.

### General guide:

- TAB** – Application with documentation and test reports are submitted to BSMI.
- MI** – A simplified batch-by-batch inspection system.
- RPC** – Application with documentation and test reports are submitted to a designated CB.
- DoC** – Application with DoC are submitted to BSMI; applicant maintains technical file.

**Applicable product categories**

- Audio/Video products
- Home appliances
- Information Technology Equipment
- Laser pointer
- Power tools
- Etc.

To determine if a particular product is subject to the above regulations, please contact us.

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Taiwanese requirements and obtaining the necessary approval.

TÜV SÜD is a designated CB able to perform testing and issue Certification of Conformity (CoC) for a wide scope, supporting manufacturers in the applicable BSMI conformity assessment procedures.



# Taiwan

## Taiwan conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	National Communications Commission (NCC)	<ul style="list-style-type: none"> <li>A type approval scheme is to be followed.</li> <li>The NCC Certification Mark should be affixed on the product after approval is granted.</li> </ul> 
EMC	NCC	<ul style="list-style-type: none"> <li>Testing must be conducted by a NCC-approved test laboratory.</li> <li>Type approval certificate is issued by a NCC-approved CB.</li> <li>EMC compliance is required for the above, where applicable.</li> <li>From 6 September 2017, those who sell approved Compliance Approval Regulations on Controlled Telecommunications Radio-Frequency Devices (CTRFD) on the internet shall provide approval or a Declaration of Conformity (DoC) label on the webpage.</li> </ul> <ul style="list-style-type: none"> <li>EMC compliance is required for the above, where applicable.</li> </ul>

## GUIDELINES

- A local representative is required.
- Most NCC-approved test laboratories are in-country, thus, test reports generated by foreign test laboratories will not be accepted unless there are recognition agreements in place.

**Applicable product categories**

To determine if a particular product is subject to the above regulations, please contact us.

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Taiwanese requirements and obtaining the necessary approval. As a NCC-approved test laboratory, TÜV SÜD is able to perform the required testing to compliance and support manufacturers in obtaining the NCC certification mark.



# Taiwan

## Taiwan conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency and Environmental</b>	Ministry of Economic Affairs (MOEA)	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>Minimum Energy Performance Standards (MEPS) and Energy Efficiency Rating Labelling are required for many products.</li> <li>Product energy efficiency ratings are determined based on the energy efficiency distribution of commercially available products, in coordination with the formulation/revision of MEPS.</li> </ul>  <ul style="list-style-type: none"> <li>Voluntary government-backed labelling through Energy Conservation Label.</li> </ul> <p><b>RoHS:</b></p> <ul style="list-style-type: none"> <li>BSMI certification includes the Taiwan RoHS marking requirement in the inspection standard for EEE. Implemented in stages, the changes mean the word “RoHS” must be included on CI MARK EEE products.</li> </ul>

## GUIDELINES

### Energy Efficiency:

- After passing testing for compliance with certain standards, applicants may attach Energy Labels to products.

### RoHS:

- It is not a separated RoHS certification, it's part of BSMI certification.

**Applicable product categories**

A full list of product categories may be found at [https://www.moeaboe.gov.tw/ECW/english/content/Content.aspx?menu\\_id=1535](https://www.moeaboe.gov.tw/ECW/english/content/Content.aspx?menu_id=1535)

To determine if a particular product is subject to the above regulations, please contact us.

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Taiwanese requirements and obtaining the necessary approval.

TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.

# Thailand

## Thailand conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Thai Industrial Standards Institute (TISI), Ministry of Industry 	<ul style="list-style-type: none"> <li>Products regulated under the Industrial Product Standards Act are required to be affixed with the TISI Mark, QR codes should be applied for all certified products.</li> <li>Products under the mandatory list need to comply with TIS standards and factory quality control system requirements before affixing the mandatory TISI Mark (red color).</li> <li>Assessment of quality control system usually involves a factory inspection.</li> <li>Testing of product samples need to be performed by accredited or approved test laboratories.</li> <li>Other products may also obtain the voluntary TISI Mark (blue color).</li> </ul> 
EMC	Thai Industrial Standards Institute (TISI), Ministry of Industry 	<ul style="list-style-type: none"> <li>EMC compliance is required for certain products.</li> </ul>

### General specifications

Voltage	220V (Single Phase); 380V (Three Phase)
Frequency	50Hz
Manual Language	Thai/English
Plug Type	A/B/C/F

### GUIDELINES

- A Local Representative is required for application.

#### Approval procedure:

- Submission of application.
- Evaluation of product.
- Assessment of quality control system.
- Issuance of TISI certificate.
- Labelling.
- Surveillance.

**Applicable product categories**

A full mandatory list of product categories may be found at [https://www.tisi.go.th/website/standardlist/comp\\_thai/en](https://www.tisi.go.th/website/standardlist/comp_thai/en)

To determine if a particular product is subject to the above regulations, please contact us.

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Thai requirements and obtaining the necessary approval.

TÜV SÜD Thailand is TISI designated Inspection Body and Testing Laboratory for certain electrical products.



# Thailand

## Thailand conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless 	National Broadcasting and Telecommunications Commission (NBTC)	<ul style="list-style-type: none"> <li>Equipment which falls under the mandatory scope requires NBTC approval.</li> <li>There are 3 types of equipment classification with different types of Conformity Assessment procedures.</li> <li>Class A equipment requires testing by the office of NBTC, certification from NBTC and labelling.</li> <li>Class B equipment follows the same procedure as Class A but NBTC accepts test reports based on international test standards* by an accredited test laboratory.</li> <li>SDOC equipment requires an issuance of a DoC to NBTC, labelling is not required.</li> <li>Products with Class A or Class B must be marked with NBTC mark.</li> <li>Local suppliers can apply permission from NBTC to apply self-labelling either by printing or using electronic label.</li> </ul> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">   <b>CLASS A</b>  NBTC ID. YYYYYY-ZZ-XXXX </div> <div style="text-align: center;">   <b>CLASS B</b>  NBTC ID. AAAAAA-BB-XXXX </div> </div> <p><b>EMC:</b></p> <ul style="list-style-type: none"> <li>EMC compliance is required for the above, where applicable.</li> </ul>

\* International test standards include FCC, ETSI/EN standards

## GUIDELINES

- A local representative is required.

### Approval procedure for Class A and B:

- Submission of application.
- Type approval based on testing of sample (Class A), or recognition of test report (Class B).
- Obtain NBTC approval.
- Label products appropriately.

### DoC procedure:

- Submit DoC, test report and essential documents to NBTC for approval.

**Applicable product categories**

**Class A equipment:**

- GMPCS/ microwave fixed links

**Class B equipment:**

- High-power RFID/ Vehicle radar
- Land mobile VHF/UHF
- Maritime/Aeronautical

**SDoC equipment:**

- Low power device/ Short range devices
- Telecommunications terminal equipment
- WLAN/ Radio control

To determine if a particular product is subject to the above regulations, please contact us.

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Thai requirements and obtaining the necessary approval. As an accredited test laboratory, TÜV SÜD can perform testing to international test standards that is accepted for Class B equipment.

# Thailand

## Thailand conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency</b>	Thai Industrial Standards Institute (TISI), Ministry of Industry (MEPS)	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>Minimum Energy Performance Standards (MEPS) are required for certain products. The certification schemes include mandatory and voluntary certification options for different product classes.</li> </ul> 
	Thailand Environment Institute (Green Label)	
	Electricity Generating Authority of Thailand (Electricity Saving Label Project No. 5)	<ul style="list-style-type: none"> <li>Electricity Saving Label Project No. 5 program is recognised among consumers as a designation of energy efficiency on various products. The labelling of appliances is the responsibility of EGAT, which has labelled typical household appliances.</li> <li>The Green Label is an environmental certification on a voluntary basis awarded to specific products that are shown to have minimum detrimental impact on the environment, in comparison with other products serving the same function.</li> </ul>

### GUIDELINES

- Manufacturers are required to test products for labelling.

**Applicable product categories**

MEPS (mandatory): Air conditioners, refrigerators, ballasts for tubular fluorescent lamps, clothes washing machines.

Green Label: A full list of electric devices can be found on <http://www.tei.or.th/greenlabel/application-electric.html>.

Electricity Saving Label Project No. 5: A full list of electric devices can be found on [http://labelno5.egat.co.th/new58/?page\\_id=1506](http://labelno5.egat.co.th/new58/?page_id=1506)

To determine if a particular product is subject to the above regulations, please contact us.

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Thai requirements and obtaining the necessary approval.

TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.



# Vietnam

## Vietnam conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Ministry of Science and Technology (MOST) 	<ul style="list-style-type: none"> <li>Regulated products that are locally manufactured require mandatory certification and the Vietnam Certification Centre (QUACERT) quality mark.</li> <li>Imported products are regulated by import-export goods control and only require a DoC or certification by a third-party CB.</li> <li>Compliance with TCVN and/or IEC standards.</li> <li>EMC compliance is required for certain products.</li> </ul> 

### General specifications

Voltage	220V (Single Phase); 380V (Three Phase)
Frequency	50Hz
Manual Language	Vietnamese/English
Plug Type	A/C/F

### GUIDELINES

#### Certification procedure:

- Testing by designated test laboratory.
- Submission of application and essential documents.
- MOST assessment.
- Obtain Certification.
- Surveillance.

#### The label of goods imported into Vietnam must bear the following information:

- Name of goods;
- Name and address of the entity responsible for the goods;
- The origin of the goods or place where the final step to complete the goods is taken.

### Applicable product categories

Safety mark is required for below equipment categories.

- Appliances for skin or hair care
- Electric fan
- Electric grills, toasters and similar portable cooking appliances
- Electric hand dryer
- Electric iron
- Electric kettle
- Electric tea and coffee makers

- Instant water heater
- LED lighting equipment
- Microwave oven
- PVC insulated wires and cables of rated voltages up to and including 450/750V
- Portable immersion heaters
- Rice Cooker
- Storage water heater

EMC compliance is required for below equipment categories.

- Blenders, fruit juicers, meat grinders and egg whisks
- Electric Air-conditioners
- Electric refrigerators and freezers
- Electric Vacuum cleaners
- Electric Washing machines
- Electromagnetic cooking equipment

- Fluorescent lamps with built-in ballasts
- Hair dryers
- Instant water heaters
- Microwave
- Motor operated portable electric drillers
- Radio broadband data transmission equipment

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Vietnamese requirements and obtaining the necessary approval.

As a listed CB for Vietnam under the ASEAN EE MRA, test reports issued from recognised TÜV SÜD laboratories are accepted by QUACERT for certification.

TÜV SÜD can also perform testing and certification for imported products.



# Vietnam

## Vietnam conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless 	Ministry of Information and Communications of the Socialist Republic of Vietnam (MIC)	<ul style="list-style-type: none"> <li>Depending on the product, type approval by certification or DoC is required.</li> <li>Testing for type approval should be performed by test laboratories approved and listed by the MIC.</li> <li>Products approved or declared should be labelled appropriately with ICT Mark of conformity.</li> </ul> 

### GUIDELINES

- A local representative is required.

**Type approval procedure:**

- Sample testing.
- Submission of application, test reports and essential documents.
- Obtain Certification.
- Product labelling.

**DoC procedure:**

- Sample testing.
- Submit DoC and essential documents.
- Acknowledgement of DoC.
- Product labelling.

### Applicable product categories

List of communications and information technology commodities subject to type approval and DoC:

- Cordless telephone equipment (DECT subscription)
- Land mobile communication terminal equipment
- Radio transceivers with a frequency band between 9kHz and 400GHz and capacity of 60mW or more
- Radar equipment (including radar used in maritime mobile services and aeronautical mobile services)
- Short-range radio transceivers
- Radio equipment

List of communications and information technology commodities subject to DoC:

- Information technology equipment (desktop computer, server, laptop and portable computer, tablet, router, switch, gateway, fire wall)
- Radio and television equipment (satellite television set top box, DVB-S/S2 digital satellite television set top box, digital cable television set top box, IPTV television set top box, IPTV television set top box, digital terrestrial television DVB-T2 set top box, iDTV, equipment in cabled distribution systems for television signal)
- Terminal devices (cordless telephone equipment, xDSL terminal equipment, ADSL2 and ADSL2+ transceivers)
- Radio transceiver with a frequency band between 9kHz and 400GHz and capacity of 60mW or more
- Lithium batteries for laptops, mobile phones and tablets

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Vietnamese requirements and obtaining the necessary approval.

TÜV SÜD is an accredited test laboratory that is able to perform testing to applicable standards for DoC.

\*: If your products fall within the category of wireless 2.4GHz and 5GHz and have EIRP under 60mW, you will be exempted from providing Type Approval and DOC.



# Vietnam

## Vietnam conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency and Environmental</b>  	Ministry of Industry and Trade (MOIT)	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>On 9 March 2017, Vietnam's Prime Minister issued Decision No. 04/2017/QĐ-TTg regulating the list of equipment subject to energy labelling and minimum energy performance within the territory.</li> <li>In Vietnam, there are two types of energy labels: endorsement (star) and comparison (rectangular).           <ul style="list-style-type: none"> <li>Endorsement label: indicate the Viet Energy Star and demonstrate the product meeting or existing the HEP prescribed by MOIT.</li> <li>Comparative label: showing the rating of energy efficiency level and relevant detailed parameters.</li> </ul> </li> </ul> <div style="text-align: center;">  <span>Endorsement Label</span>  <span>Comparative Label</span> </div>

### GUIDELINES

- A local representative is required.

#### Energy labelling procedure:

- Sample testing.
- Submission of application, test reports and essential documents.
- Submission of registration to the Ministry of Industry.
- Product labelling.

#### **Applicable product categories**

The product mandatory to Energy Efficiency:

- Air conditioners, Refrigerators, Washing machines, Electric cookers, Electric fans, Television receivers, Commercial refrigeration cabinets, Straight tub fluorescent lamps, Compact fluorescent lamps, Electronic ballasts for fluorescent lamps, Electromagnetic ballast for fluorescent lamps, Photocopiers, Computer monitors, Printers, Distribution transform

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Vietnamese requirements and obtaining the necessary approval.

TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.



# Algeria

## Algeria conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Algerian Ministry of Commerce 	<ul style="list-style-type: none"> <li>A Certificate of conformity or certificate of quality is required for all exports to Algeria to ensure that the products meet legal and regulatory requirements.</li> <li>This obligation is enforced by law 09-03, dated 25/02/2009, and decree 05-467 dated 12/12/2005, on conditions and procedures of conformity control of imported goods at customs.</li> </ul>

### General specifications

Voltage	230V (Single Phase)
Frequency	50Hz
Manual Language	Arabic
Plug Type	C/F

### GUIDELINES

#### Import file includes:

- A copy of the certificate proving compliance with the conditions and modalities for practicing the activity of importing raw materials, products and goods destined for sale;
- A copy of the national invoice; and
- A copy of the packing list in case of importing a heterogeneous shipment.

### Applicable product categories

All consignments of imported goods are subject to the Algerian CoC program.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approval.



# Algeria

## Algeria conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Autorité de Régulation de la Poste et des Télécommunications (ARPCE)  	<ul style="list-style-type: none"> <li>The Decision No. 28 of 16/10/2019 provide the Procedure for terminal equipment and radioelectric installations intended to be connected to a network of electronic communications open to the public.</li> <li>Any equipment approved by the Regulatory Authority is subject to labeling with a non-removable sticker bearing the words "homologué par l'ARPCE" and the approval number of the Regulatory Authority.</li> </ul>

### GUIDELINES

Certificate of conformity supported by conformity test reports from an accredited laboratory for:

- Electrical safety;
- Electromagnetic compatibility;
- Radio spectrum (required only for radio terminal equipment and radio installations);
- Specific absorption rate (SAR) or exposure to electromagnetic radiation.

An application for approval of terminal equipment must be accompanied by a sample.

### Applicable product categories

All terminal equipment and radio installations intended to be connected to an electronic communications network open to the public shall apply for the Type Approval.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approval.



# Algeria

## Algeria conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency</b> 	Agence Nationale pour la Promotion et la Rationalisation de l'Utilisation de l'Energie (APRUE)	<ul style="list-style-type: none"><li>There are currently no environmental requirements in Algeria.</li></ul>



# Egypt

## Egypt conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	General Organization for Export and Import Control (GOEIC) 	<ul style="list-style-type: none"> <li>On the 16th March 2016, the Egyptian Ministry of Trade and Industry introduced important changes to the Customs Clearance procedure as well as to the list of regulated products subject to conformity assessment. Decree of Minister of Trade and Industry No. (43) of the year 2016 list the products that can be imported only if they are produced in GOEIC registered factories. Factories, manufacturers or trademark owners of regulated products must now register with GOEIC to continue to export to Egypt.</li> <li>Starting from May 21, 2022, a new decree 96-2022 was released regarding products under GOEIC scheme.</li> </ul>

### General specifications

Voltage	230V (Single Phase)
Frequency	50Hz
Manual Language	Arabic
Plug Type	C/F

### GUIDELINES

1. Submit the application form by the applicant
2. Review of the applicant's submitted documentation by the authorized certification body
3. Shipment inspection by the appointed inspector
4. Shipment testing by the accredited laboratory
5. Issuance of the final certification decision by the authorized certification body

### Applicable product categories

Products subject to the Egyptian verification of conformity programme include:

- Bicycles & motorcycles
- Carpets and floor coverings
- Construction Materials
- Cosmetics and hygiene products
- Detergents
- Electric & electronic products
- Food

- Furniture
- Kitchenware
- Leather bags
- Shoes
- Textiles
- Toys
- Watches

Products under the decree 96-2022 includes:

- Discharge lamps or tubes; ballasts
- Dry batteries
- Electric transformers, static converters (e.g. rectifiers) and inductors
- Energy-saving bulbs
- Golf batteries
- Hand-held valves for liquefied petroleum gas (LPG) cylinder

- Locks
- Low pressure Regulating or controlling for home use
- Low voltage cables
- Sealed batteries (Emergency detector batteries)
- Welding wire

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD is GOEIC notified body and can issue CoI for the majority of the regulated products. We are also able to issue test report against Egypt standard and perform shipment inspection for each lot from worldwide.



# Egypt

## Egypt conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	National Telecom Regulatory Authority (NTRA)	<ul style="list-style-type: none"> <li>• Telecom Regulations Law No. 10/2003 has stipulated the establishment NTRA as a national authority competent and responsible for the administration and regulation of the telecom sector, considering transparency, open competition, universal service and protection of user rights as general outlines for NTRA scope of work.</li> <li>• Type Approval is a compulsory step applied when importing or manufacturing or assembly of any equipment having a communication element.</li> <li>• NTRA has four number of Approval schemes: <ul style="list-style-type: none"> <li>• The Light Scheme</li> <li>• The Intermediate Scheme</li> <li>• The Tight Scheme</li> <li>• The Guided Scheme</li> </ul> </li> </ul>

### GUIDELINES

- The Light Scheme: the manufacturer (brand owner) accredited to ISO 17025 in product EMC testing, or the manufacturer (brand owner) accredited to ISO applicable quality accreditation in product design & development and located in EU countries, England, USA, Canada, Russia, Australia, Japan, Taiwan, South Korea and Singapore
- The Intermediate Scheme: others besides which in the scope of the Light Scheme, the Tight Scheme or the Guided Scheme
- The Tight Scheme: the factory located in China or India
- The Guided Scheme: the factory located in Egypt

### Applicable product categories

All Telecommunication equipment used in Egypt including:

#### Terminal equipment:

1. All types of Telephones Sets;
2. All types of Public/Private exchange;
3. Card /Pay Phone set;
4. Fax machines (Voice Connection Unit);
5. GSM mobile station & Handsets.

#### Radio communication apparatus:

1. Cordless Telephone Set;
2. Radars;
3. Radio Trans/Receive equipment;
4. Satellite Communication equipment.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Egyptian requirements and obtaining the necessary approval.



# Egypt

## Egypt conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Energy Efficiency	Egyptian Organisation for Standardisation (EOS) 	<ul style="list-style-type: none"> <li>On 19 June 2017, the Egyptian Minister for Trade and Industry issued Decision No. 912 regarding Compulsory Energy Efficiency Labeling of Certain Electrical Appliances and Lighting Modules.</li> <li>Manufacturers and importers of certain electrical appliances and lighting modules must mark the products with the energy efficiency label in accordance with the relevant standards.</li> </ul>

### GUIDELINES

- A local representative is required.

#### General type approval procedure:

- Submission of application to EOS.
- Testing in EOS accredited lab.
- Issuance of energy label.

### Applicable product categories

Products subject to the Egyptian verification of conformity programme include:

- Air conditioners
- Clothes washers
- Dishwashers
- Electric fans
- Freezers
- Incandescent light bulb/electric lightbulb
- Lighting equipment and lamps
- Refrigerators
- Televisions
- Water heaters

### TÜV SÜD solutions

Being one of the leaders in the market of conformity verification services, we are eager to offer you, as our customers, the most beneficial terms of services.



# Republic of Yemen, State of Kuwait, State of Qatar, Sultanate of Oman, Kingdom of Saudi Arabia, Kingdom of Bahrain, United Arab Emirates

## GCC conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	GCC Standardization Organization (GSO) 	<ul style="list-style-type: none"> <li>• GSO published Gulf Technical Regulation for Low Voltage Electrical Equipment and Appliances and the full enforcement came on 1st of July 2016, this Technical Regulation deals with safety essential requirements and EMC.</li> <li>• There are two lists for two categories of electrical equipment depending on their degree of hazard to persons, property and environment referred to as list (1) and list (2).</li> <li>• The Manufacturer shall affix the GCC Conformity Marking in accordance with the relevant Gulf Technical Regulations and requirements to each individual electrical equipment that is in conformity with the requirements of the Gulf Technical Regulations in force.</li> </ul> 

## GUIDELINES

- The manufacturer shall establish the Technical Documentation, which shall make it possible to assess the conformity of electrical equipment to the relevant requirements, and shall include an adequate analysis and assessment of risk.

### If equipment in list (1):

- The Manufacturer shall draw up a written Declaration of Conformity for each electrical equipment Model if the electrical equipment in list (1).

### If equipment in list (2):

- The manufacturer shall lodge an application for the Gulf-type examination with a Notified Body if the electrical equipment in list (2).

**Applicable product categories**

**List (2) product categories:**

- Air conditioners
- Centrifugal clothes dryers and Clothes washing machines, including machines which both wash and dry freezing equipment
- Domestic electric heating apparatus
- Domestic Electrical Fans
- Electric instantaneous or storage water heaters and immersion heaters
- Electric smoothing irons
- Electro-thermic hair-dressing apparatus and hand dryers
- Food grinders and mixers, fruit or vegetable juice extractors
- Microwave ovens
- Other ovens; cookers, cooking plates, boiling rings, grillers and roasters
- Plugs, Socket outlets, Adaptors, Cord Extension Sets and chargers
- Refrigerators, freezers and other refrigerating or freezing equipment
- Toasters

**List (1) product categories:**

All products which falls out of List (2) and under LVD will be in consider as List (1) product..

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with GCC requirements and obtaining the necessary approval.



# Israel

## Israel conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Standards Institution of Israel (SII)	<p></p> <p>The Israeli parliament has recently approved “the import reform” and it includes two main principles:</p> <ul style="list-style-type: none"> <li>• Products that are in compliance with the regulation in major advanced countries should be good for Israel as well.</li> <li>• The method of enforcement should be based on importers declaration alongside with smart and effective marker surveillance.</li> </ul> <p>Some products will remain in the strict import regime, which requires a full model approval and a check done by a certified Israeli lab for every shipment, eg, lifting equipment, pressure equipment, low and medium voltage power cables etc.</p> <ul style="list-style-type: none"> <li>• Manufacturers may also choose to apply for the voluntary safety mark on products.</li> <li>• Compliance with SI standards.</li> </ul> <p></p> <p><b>EMC:</b></p> <ul style="list-style-type: none"> <li>• EMC compliance is required for electrical products, telecom and wireless equipments, where applicable.</li> </ul>

### General specifications

Voltage	230V (Single Phase); 400V (Three Phase)
Frequency	50Hz
Manual Language	Hebrew/English
Plug Type	C/H/M

### GUIDELINES

#### Group 1:

- The products in Group 1 whose inherent level of risk is the highest. Approval of a testing laboratory for the model of the goods (“model approval”) and approval of a testing laboratory for the shipment of the goods (“shipment inspection”).

#### Group 2:

- The products in Group 2 whose inherent level of risk is moderate. A “model certificate” and a “declaration” signed by the importer that the goods in the shipment meet the requirements of the official standard.

#### Group 3:

- The products in Group 3 whose inherent level of risk is low. A “declaration” signed by the importer regarding the conformity of the goods to the requirements of the official standard.

#### Group 4:

- In this group are goods intended for use in industry only. The release of these goods will be granted by the Commissioner.
- For the voluntary safety mark, the factory inspection is required and related mark will be granted if the product is fulfilling with all the requirements.

**Applicable product categories**

Through the search engine [https://www.gov.il/he/service/search\\_official\\_standards](https://www.gov.il/he/service/search_official_standards), you can check which import groups, standards belong to and get more details about the conditions. To determine if a particular product is subject to the above regulations, please contact us.

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Israeli requirements and obtaining the necessary approval. TÜV SÜD also can support manufacturers in obtaining voluntary safety mark.



# Israel

## Israel conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom	Ministry of Communications (MoC) Israel 	<ul style="list-style-type: none"> <li>Equipment connected to the public network requires type approval from MoC.</li> </ul>
Wireless	Ministry of Communications (MoC) Israel 	<ul style="list-style-type: none"> <li>Radio terminal devices require approval from MoC.</li> </ul>

### GUIDELINES

- A local representative is required.
- Approval can often be issued based on review of foreign standard test reports without in-country testing.
- A local representative is required.
- The approval process includes review of foreign standard test reports, but MoC may require additional testing and/or inspection sample(s) of the equipment.

### Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Israeli requirements and obtaining the necessary approval.

As a CB Scheme member, TÜV SÜD is able to perform testing to international standards acceptable for MoC approval.



## Israel conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Energy Efficiency	Ministry of National Infrastructures 	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>As part of the import reform, the Ministry of Energy refers directly to European energy efficiency requirements for some products.</li> </ul>

### GUIDELINES

The law defines a declaration-based import process and the declaration must be based on one of the following:

- A relevant DOC document on behalf of the manufacturer accompanied by an energy efficiency label (which, according to European regulation, requires such a label).
- A test certificate from an accredited laboratory certified by an ILAC member body or by the Standards Institution of Israel or by an approved laboratory.

### Applicable product categories

The products that refer directly to European energy efficiency requirements:

- |                                    |                     |                      |   |
|------------------------------------|---------------------|----------------------|---|
| • Additional electrical appliances | • Computer          | • Microwave          | • Three-phase cage asynchronous induction motor |
| • Air conditioners                 | • Computer screens  | • Printer            | • TV  |
| • Baking ovens                     | • Digital converter | • Radio              | • Washing machines                              |
| • Ballast for a pleurant bulb      | • Dishwashers       | • Refrigerators      |   |
| • Chillers                         | • Dryers            | • Set-top box for TV |   |

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Israeli requirements and obtaining the necessary approval.



# Kenya

## Kenya conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Kenya Bureau of Standards (KEBS) 	<ul style="list-style-type: none"> <li>PVOC Program is a conformity assessment program applied to products at the respective exporting countries, to ensure their compliance with the applicable Kenyan Technical Regulations and Mandatory Standards or approved specifications.</li> <li>PVOC program was started on 29<sup>th</sup> September 2005 by KEBS, through the publication of Legal Notice No. 78 of 15<sup>th</sup> July, 2005 by the Minister for Trade and Industry.</li> <li>Certification routes for general goods:           <ul style="list-style-type: none"> <li>Route A (Consignment inspection and testing)</li> <li>Route B (Product registration)</li> <li>Route C (Product licensing)</li> <li>Route D (Consolidated cargo imports)</li> </ul> </li> </ul>

General specifications	
Voltage	240V (Single Phase)
Frequency	50Hz
Manual Language	English
Plug Type	G

## GUIDELINES

- Importers or exporters submit the application together with the initial set of supporting documents.
- PVOC Agents review the documents and arrange the inspection.
- COC issues if with the successful review of the various reports and other supporting documents.

## Applicable product categories

Regulated products include all consumer products arriving in Kenya, whether imported or produced locally. For the complete list of approved regulations please check the KEBS website.

## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Kenya requirements and obtaining the necessary approval.



# Kenya

## Kenya conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Wireless	Communications Authority of Kenya (CA)	<p> • The Communications Authority of Kenya (CA) has within its remit the responsibility of type approving and accepting all telecommunications equipment intended to work within the public telecommunications networks in the country. CA is also responsible for type approving or accepting radio communication equipment intended for use in Kenya.</p>

### GUIDELINES

- Submit the application for Type Approval, together with the required documentations.
- If the equipment is found to comply with the mandatory standards and specifications in all respects, the Type Approval shall be granted to the applicant.

### Applicable product categories

All communications equipment intended to send, process or receive information within the public telecommunications network is subject to type approval by the Authority.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approval.

TÜV SÜD can also perform required testing to applicable standards.



# Kenya

## Kenya conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency</b>	Energy & Petroleum Regulatory Authority (EPRA)	<p></p> <ul style="list-style-type: none"> <li>In 2013, the Energy and Petroleum Regulatory Authority initiated the Standard and Labelling (S&amp;L) program for equipment and appliances.</li> <li>The Kenyan Standards and Labelling program covers refrigerators, air-conditioners, motors and lightings which are mandatory under the Standards and Labelling scheme.</li> <li>The Energy Label is required to affix on the appliance.</li> </ul> 

### GUIDELINES

- Testing in accredited laboratory as per the applicable Kenyan Standard.
- The manufacturer/importer applies for registration in EPRA.
- The Energy Labels will be issued if appliances meet the MEPS.

### Applicable product categories

- Ballasts for fluorescent lamps
- Double capped fluorescent lamps
- Non-ducted air conditioners
- Refrigerating appliances
- Self-ballasted lamps
- Three-phase case induction motors

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approval.



# Kuwait

## Kuwait conformity requirements

Category	Regulatory Agency	Regulations
Electrical safety	Public Authority for Industry (PAI) 	<ul style="list-style-type: none"> <li>The Kuwait Conformity Assurance Scheme (KUCAS) contains a set of procedures carried out by PAI to verify the conformity of all “Regulated Products” (domestic or imported) to Kuwait’s Technical Regulations and approved Standards.</li> <li>Manufacturers with consignments of regulated products to be shipped to Kuwait are required to complete the conformity procedures prior to shipment through one of the Certification and Inspection Bodies (CIB) approved by PAI.</li> <li>A Technical Evaluation Report (TER) and a Technical Inspection Report (TIR) issued by an approved CIB are required.</li> <li>Compliance with KSS and IEC standards.</li> </ul>

### Applicable product categories

Product categories that require mandatory energy efficiency labelling include:

- Group 1 - Electrical toys
- Group 2 - Household & commercial electrical and gas appliances
- Group 3 - Automotive
- Group 4 - Chemical
- Group 5 - Others
- Group 6 - Building materials

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Kuwaiti requirements and obtaining the necessary approval.

### General specifications

Voltage	240V (Single Phase); 415V (Three Phase)
Frequency	50Hz
Manual Language	Arabic/English
Plug Type	C/G

### GUIDELINES

- Manufacturers need to be licensed.
- The TER is issued by an approved CIB on the basis of successful type testing or test report evaluation.
- Inspection and testing (based on risk assessment and type of product) would be conducted prior to shipment by the relevant CIB for TIR.



# Kuwait

## Kuwait conformity requirements

Category	Regulatory Agency	Regulations
Telecom & wireless	Communication and Information Technology Regulatory Authority (CITRA)  	<ul style="list-style-type: none"> <li>The CITRA in Kuwait issues type approval for terminal equipment.</li> <li>Hardware Type Approval Certificate is granted for a period of three years.</li> </ul>

### GUIDELINES

- A local representative is required.
- Approval is based on review of foreign standard test reports.

### Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Kuwaiti requirements and obtaining the necessary approval.



# Kuwait

## Kuwait conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Energy Efficiency	Public Authority for Industry (PAI) 	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>According to KWS 1893:2018, air conditioner is mandatory to apply for the Energy Efficiency Labelling.</li> </ul>

### GUIDELINES

- Product tested in the accredited laboratory.
- Commercial registration certificate of Kuwaiti importer.

### Applicable product categories

Product categories that require mandatory energy efficiency labelling include air conditioners.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Kuwaiti requirements and obtaining the necessary approval.



# Nigeria

## Nigeria conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Standards Organisation of Nigeria (SON)	<p></p> <ul style="list-style-type: none"> <li>The Standards Organisation of Nigeria (SON) released a new SONCAP process in January 2013. All exports to Nigeria must comply with a strict set of customs requirements. These requirements are set out by SON who implemented SONCAP (the Standards Organisation of Nigeria Conformity Assessment Programme).</li> <li>SONCAP is a pre-shipment verification of conformity to Standards process used to verify that products to be imported into Nigeria are in conformity with the applicable NIS or approved equivalents, and technical regulations before shipment.</li> <li>Upon Under this programme, importers of a wide range of goods must obtain two certificates in order to operate: <ul style="list-style-type: none"> <li>Product Certificate (PC),</li> <li>SONCAP Certificate (SC)</li> </ul> </li> </ul>

### General specifications

Voltage	230V (Single Phase)
Frequency	50Hz
Manual Language	English
Plug Type	D/G

### GUIDELINES

There are three routes to SONCAP compliance:

- Route A – For Unregistered/Unlicensed products, resulting in issue of Product Certificate 1.
- Route B – For Registered Products, resulting in issue of Product Certificate 2.
- Route C – For Licensed Products, resulting in issue of Product Certificate 3.

Once Product Certificate 1, 2 or 3 has been issued then your product will receive its SC, and export into Nigeria can begin.

**Applicable product categories**

- Arts and Crafts
- Building and Construction Material
- Chemical products
- Electrical and Electronic products
- Furniture (Some furniture items are forbidden, we can advise)
- Leather, Plastic and Rubber Products
- Mechanical Devices and Gas Appliances
- Medical devices
- New Motor Vehicles and spare parts including Tyres
- Paper and stationery items
- Protective Safety Equipment
- Toys

To determine if a particular product is subject to the above regulations, please contact us.

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approval.



# Nigeria

## Nigeria conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Nigerian Communications Commission (NCC)	<ul style="list-style-type: none"> <li>The Nigerian Communications Commission is empowered by the Nigerian Communications Act 2003 to establish and enforce standards for all telecommunications equipment in operation in the Federal Republic of Nigeria to ensure that they operate seamlessly and safely within the Nigerian telecommunications environment.</li> <li>All communications equipment that has been type approved must be labelled with a label approved by the Commission.</li> </ul> <p style="text-align: center;"><b><u>Connection and use of this communications equipment is permitted by the Nigerian Communications Commission</u></b></p>

### GUIDELINES

- Submitting the documents and test reports.
- Evaluation reports and other submitted documents by certification experts.
- Issue the Type Approval.

### Applicable product categories

All equipment with communication capabilities and that can be connected to a communication network in Nigeria.

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approval.



# Nigeria

## Nigeria conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Energy Efficiency	Energy Commission of Nigeria	<ul style="list-style-type: none"><li>• There are currently no environmental requirements in Nigeria.</li></ul>

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# Saudi Arabia

## Saudi Arabia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Saudi Standards, Metrology and Quality Organisation (SASO)  	<p><b>IECEE Recognition Certificate:</b></p> <ul style="list-style-type: none"> <li>SASO will issue an IECEE Recognition Certificate for the products based on a valid CB issued by an IECEE approved lab.</li> </ul> <p><b>SALEEM (Saudi Product Safety Program):</b></p> <ul style="list-style-type: none"> <li>The new SALEEM scheme replaced the SASO COC scheme and operated via the new SABER system which is an electronic service used to issue certificates of conformity for products conforming with Saudi standards and specifications.</li> <li>Requirements for the certification and registration in SABER system is different according to the level of risk of the product.</li> <li>Two steps for the certification: Product Certificate of Conformity and Shipment Certificate of Conformity.</li> <li>The product images for non-regulated products are mandatory to upload in SABER.</li> <li>The Technical Regulation of EMC implemented from May 17, 2024.</li> </ul>

### General specifications

Voltage	127V / 220V (Single Phase); 220V / 380V (Three Phase)
Frequency	60Hz
Manual Language	Arabic/English
Plug Type	G

### GUIDELINES

#### IECEE Recognition Certificate:

- Product test certificate and report issued by any (NCB) accreditation body, approved by IEC according and applicable to IECEE conformity assessment system
- Register through SASO and attach all documents and requirements, specified for the product.
- Obtain the certificate

#### SALEEM

- Local representative submits the application via SABER system
- CBs carry the conformity assessment procedure according to TRs
- Product certificate of conformity and shipment certificate of conformity issued through SABER

#### **Applicable product categories**

IECEE Recognition Certificate:

- Batteries (car and phone batteries)
- Chargers and other accessories
- Coffee makers of all kinds
- Dishwashers
- Electric pumps with 5 hp or less
- Electronic watches
- Home Electric fryers
- Laptops
- Lighting products
- Mobile phones
- Phones chargers and components
- Power cables
- TVs
- Video game consoles and controllers
- Water boilers and kettles
- Water pumps
- Wireless headsets

SALEEM:

Regulated products include all consumer products arriving in Saudi Arabia, whether imported or produced locally. For the complete list of approved regulations please check the SABER website.

#### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Saudi Arabian requirements and obtaining the necessary approval.

TÜV SÜD ME and PSB are authorized by SASO to provide conformity assessment services for manufacturers, traders and retailers for SALEEM.

TÜV SÜD ME are authorized by SASO to provide conformity assessment services for manufacturers, traders and retailers for IECEE Recognition Certificate.



# Saudi Arabia

## Saudi Arabia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Communications, Space & Technology Commission (CST)	<ul style="list-style-type: none"> <li>Equipment approval for imported telecommunications and wireless equipment is required.</li> </ul> 

### GUIDELINES

- Equipment approval is based upon review of existing foreign standard test reports such as EN test reports.
- The Commission may obtain a sample of the equipment held by the Authority for testing to verify conformance to the Commission's requirements.

### Applicable product categories

Telecommunications and IT equipment: Technical specifications for ICT equipment can be found at [https://www.cst.gov.sa/en/RulesandSystems/RegulatoryDocuments/EquipmentApproval/Pages/Technical\\_Specification.aspx](https://www.cst.gov.sa/en/RulesandSystems/RegulatoryDocuments/EquipmentApproval/Pages/Technical_Specification.aspx)

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Saudi Arabian requirements and obtaining the necessary approval. TÜV SÜD can perform EN testing for equipment approval.



# Saudi Arabia

## Saudi Arabia conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency</b> 	Saudi Standards, Metrology and Quality Org. (SASO)	<ul style="list-style-type: none"> <li>The SASO EER Certificate is issued for registered products with Saudi Standards, Metrology and Quality Organisation (SASO) for Energy Efficiency Labels, based on requirements according to applicable SASO standards.</li> <li>Requirement for Standby and Off Mode Electric Power Consumption of Certain Electrical and Electronic Equipment will come into force on July 1, 2024.</li> </ul>

### GUIDELINES

- Each product model is required to be registered with SASO and labelled with an energy efficiency rating.
- The rating will be assigned based on the results of energy performance tests according to recently approved SASO standards.
- Appliances will be assigned with level model.

### Applicable product categories

Product categories that require mandatory energy efficiency labelling include

- Air conditioning equipment
- Clothes washers
- Compact fluorescent lamps
- Cooling equipment for households (electrical refrigerators, freezers and combinations thereof)
- Electric motors
- Electrical clothes dryers
- Halogen lamps
- Incandescent light bulb / Electric Lightbulb
- LED lamps
- Lighting equipment / Luminaires
- Tyres
- Water heaters

Product categories that require Standby and Off Mode Electric Power Consumption: (come into force on July 1, 2024)

- Clothes dryers
- Dishwashers
- Electric ovens
- Microwave
- Televisions and electronic screens
- Washing machines

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Saudi Arabian requirements and obtaining the necessary approval. TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.



# Oman

## Oman conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	Directorate General for Standards and Metrology (DGSM) 	<ul style="list-style-type: none"> <li>The appointment services and legislation development team has prepared the general guide for the appointment of conformity assessment bodies within the implementation plan of the technical regulation of the conformity system issued by Ministerial Resolution No. 190/2021.</li> <li>DGSM implements the technical regulations for the new Omani Conformity Scheme, the 1<sup>st</sup> stage came into force on June 5, 2022. Products subject to these regulations need to obtain certification from a Notified Body designated by the DGSM.</li> </ul>

### General specifications

Voltage	240V (Single Phase)
Frequency	50Hz
Manual Language	Arabic
Plug Type	G

### GUIDELINES

- Products must test with safety and EMC standards.
- Manufacturers need to prepare product design and risk analysis documentation.
- Conformity certificates are valid for one year.

### Applicable product categories

Type Examination Certificate scope:

- Dishwashers
- Vacuum cleaners
- Washing machines

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approvals.



# Oman

## Oman conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Telecommunications Regulatory Authority (TRA), Sultanate of Oman  	<ul style="list-style-type: none"> <li>Registered importer shall only sell telecommunications equipment type approved by the TRA: all telecommunications sold and used within the Sultanate must carry the TRA Approval label.</li> <li>All equipment must comply with the substance restriction requirements of the RoHS (EU Directive 2017/2102)</li> </ul> <div style="text-align: center;">  <p>The label consists of three horizontal sections. The top section contains the text "Oman - TRA". The middle section contains the text "Dealer No.". The bottom section contains the text "Certificate No.".</p> </div>

## GUIDELINES

**The General documents required for a type approval application are:**

- Declaration of conformity
- Electromagnetic capability (EMC)
- Safety Report
- Radio frequency test reports (For the radio operating devices)
- SAR test report (for the GSM Mobiles)
- Any other test report might be required

## Applicable product categories

The categories of the telecommunication devices required to be type approved are:

- GSM Mobile
- Handheld Radio devices
- Microwave devices
- Other radio equipment
- Other terminal equipment
- PAPX Servers
- Radars
- Short range devices
- Switches
- Telephone set
- Wireless Access devices

## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with the national requirements and obtaining the necessary approvals.



# Oman

## Oman conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency</b> 	Directorate General for Standards and Metrology (DGSM)	<ul style="list-style-type: none"> <li>Air conditioners within the scope of the standard GSO 2530/2016 shall meet the Minimum Energy Performance Standard (MEPS) as stipulated in the ministerial decree (107/2018) of the Sultanate of Oman.</li> <li>Manufacturers exporting air conditioners to the Sultanate of Oman are required to register the air conditioners with the Oman Authority and affix the Energy Efficiency Rating label on the registered product.</li> </ul> 

## GUIDELINES

- Once Oman authority approves the application for registration in the online system, an Oman EER energy efficiency label will be issued in electronic format for the product.
- The manufacturer shall affix the energy label on the approved product according to the requirements for GSO 2530/2016 before placing the product in the Sultanate of Oman market.

## Applicable product categories

Air conditioners:

- Central air conditioning machines
- Heat pumps using air-cooled condensers
- Single-package of Window type
- Split-system ducted air-conditioners using air-cooled condensers
- Split-system non-ducted air conditioners using aircooled condensers

## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with Oman requirements and obtaining the necessary approval.

TÜV SÜD PSB is designated by the Directorate General for Standards and Metrology (DGSM) of the Ministry of Commerce and Industry (MOCI) of the Sultanate of Oman to issue the Omani energy efficiency labeling for air conditioners.



# United Arab Emirates

## United Arab Emirates conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Electrical safety	The Ministry of Industry and Advanced Technologies of the United Arab Emirates (MOIAT) 	<ul style="list-style-type: none"> <li>Under the Emirates Conformity Assessment Scheme (ECAS), registration of regulated products is required.</li> <li>MOIAT will issue an ECAS Registration Certificate for the product when conformity to the relevant standards is demonstrated.</li> <li>Manufacturers may also request for the Emirates Quality Mark.</li> <li>Printed labels with ECAS mark will be required at the beginning of January 2019 for all certified products.</li> </ul>  <b>NB-0017</b>

### Applicable product categories

- Cables and telecommunication cables
- Drone
- Lighting fixtures and luminaries
- Low voltage equipment

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with UAE requirements and obtaining the necessary approval.

TÜV SÜD is designated as a Notified Body (0017) by MOIAT to issue MOIAT certificate.

### General specifications

Voltage	230V (Single Phase); 400V (Three Phase);
Frequency	50Hz
Manual Language	Arabic/English
Plug Type	C/D/G

### GUIDELINES

- Registration on MOIAT website.
- Apply for a certificate of conformity.
- Upload the Required Document.
- Documents Review.
- If the product fulfills all the requirements, system will notify the clients.
- Obtain a certificate of conformity.
- Apply for EESL (applicable to the products included in EESL schemes).



# United Arab Emirates

## United Arab Emirates conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Telecommunications and Digital Government Regulatory Authority (TDRA)  	<ul style="list-style-type: none"> <li>The registered manufacturer, importer or distributor of telecommunications equipment must obtain Type Approval for the telecommunications equipment before being offered or sold in the UAE, according to the technical standards approved by TDRA and the Type Approval requirements.</li> <li>The registered manufacturer or importer of telecommunications equipment shall provide TDRA Declaration of Conformity Card (Type Approval Regime Conformity Mark) on the equipment box in a clear, readable and non-removable format before offering, selling or making the equipment available in the UAE market. TDRA Declaration of Conformity Card shall be placed under the display platform of telecommunications equipment in retail stores in a way that is clear and readable to users.</li> </ul> <div style="text-align: center;">  </div>

### GUIDELINES

- A local representative is required.
- Equipment is required to be registered with the TDRA before it can be supplied in the UAE.
- The Type Approval certificate is valid for 3 years and is renewable.

**Applicable product categories**

In general, all telecommunications terminal equipment connected to a public network and all radio equipment shall be registered with the TDRA before it can be supplied in the UAE. To determine if a particular product is subject to the above regulations, please contact us.

**TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with UAE requirements and obtaining the necessary approval.



# United Arab Emirates

## United Arab Emirates conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Energy Efficiency and Environmental	The Ministry of Industry and Advanced Technologies of the United Arab Emirates (MOIAT)	<p><b>Energy efficiency:</b></p> <ul style="list-style-type: none"> <li>The UAE Energy Efficiency Standards &amp; Labeling Program (EESL) is supervised and managed by the MOIAT (Emirates Authority for Standardisation &amp; Metrology) who is the authorised government agency responsible for the development of standards.</li> </ul> <p><b>UAE RoHS:</b></p> <ul style="list-style-type: none"> <li>The UAE regulation to control hazardous substance in electrical and electronic devices was published in the UAE official gazette on 27 April 2017. Its intention is to control or limit presence of the following hazardous substances on electrical and electronic devices:           <ol style="list-style-type: none"> <li>Lead (Pb)</li> <li>Mercury (Hg)</li> <li>Cadmium (Cd)</li> <li>Hexavalent chromium (Vi)</li> <li>Polybrominated biphenyls (PBB)</li> <li>Polybrominated biphenyl ethers (PBDE)</li> <li>Bis (2-ethylhexyl) phthalate (DEHP)</li> <li>Butyl benzyl phthalate (BBP)</li> <li>Dibutyl phthalate (DBP)</li> <li>Diisobutyl phthalate (DIBP)</li> </ol> </li> </ul>

## GUIDELINES

- Local representative required.

### Certification procedure:

- Submit application and testing report. The performance test report should be from an ISO 17025 certified laboratory.
- Evaluation of Annual Energy Consumption (EER).
- Equivalent star rating is assigned if the product meets the minimum requirements.

#### **Applicable product categories**

Energy Efficiency:

- Commercial and central air conditioners
- Dishwashers
- Electric pumps
- Electrical storage water heaters
- Household air conditioners
- Lighting
- Non-ducted room air conditioners
- Refrigerating appliances
- Television sets
- Washing machines and dryers

UAE RoHS:

- The UAE RoHS regulation covers all electrical and electronic equipment with a voltage rating not exceeding 1000 volts for alternating current and 1500 volts for direct current.

To determine if a particular product is subject to the above regulations, please contact us.

#### **TÜV SÜD solutions**

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with UAE requirements and obtaining the necessary approval.

TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.



# South Africa

## South Africa conformity requirements

Category	Regulatory Agency	Regulations
Electrical safety	National Regulator for Compulsory Specifications (NRCS)  	<ul style="list-style-type: none"> <li>A Letter of Authority (LoA) is required by manufacturers of regulated products upon conformity assessment.</li> <li>Test reports must be from a test laboratory by a national accreditation body affiliated to the International Laboratory Accreditation Cooperation (ILAC) and/or be an IECEE CB Scheme member.</li> <li>On top of LoA, manufacturers of regulated products may choose to obtain the South African Bureau of Standards (SABS) Mark.</li> <li>Compliance with SANS and/or IEC standards.</li> </ul>

General specifications	
Voltage	230V (Single Phase); 400V (Three Phase)
Frequency	50Hz
Manual Language	English
Plug Type	C/D/M/N

## GUIDELINES

- A local representative is required.
- Manufacturers are first required to register with the NRCS Electrotechnical Department before a LOA will be issued.

### LoA procedure:

- Application.
- Submission of test report and essential documents.
- Review.
- Issuance of LoA.

## Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

## TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with South African requirements and obtaining the necessary approval. As a CB Scheme member, TÜV SÜD can also perform testing to applicable standards for safety approval.



# South Africa

## South Africa conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
Telecom & wireless	Independent Communications Authority of South Africa (ICASA)  	<ul style="list-style-type: none"> <li>Type approval is required for regulated equipment.</li> <li>ICASA accept test reports against the relevant EN standards, provided that the testing has been performed at an accredited test facility.</li> <li>Products must be marked with ICASA label.  </li> </ul>
EMC	South African Bureau of Standards (SABS)  	<ul style="list-style-type: none"> <li>EMC compliance is required for the above, where applicable.</li> <li>CoC for EMC is required for some equipment.</li> <li>The test report should follow the new scheme option is ILAC-accredited and the related SANS standard is in scope.</li> </ul> <p>Customer can test with SABS A-Lab scheme Laboratories.*</p>

## GUIDELINES

### Type approval procedure:

- Submission of application, test reports and essential documents.
- Review.
- Issuance of type approval.
- Labelling as appropriate.

### Applicable product categories

To determine if a particular product is subject to the above regulations, please contact us.

### TÜV SÜD solutions

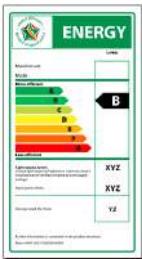
TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with South African requirements and obtaining the necessary approval.

\* TÜV SÜD PSB Pte Ltd and TÜV SÜD America Inc. were assessed and recommended for inclusion into the SABS A-Lab Program.



# South Africa

## South Africa conformity requirements

CATEGORY	REGULATORY AGENCY	REGULATIONS
<b>Energy Efficiency</b> 	National Regulator for Compulsory Specifications (NRCS)	<p><b>Energy Efficiency Label:</b></p> <ul style="list-style-type: none"> <li>A number of appliances sold in the South Africa must be labelled with a South African Energy Efficiency Label. The label indicates how much electricity the appliance is expected to use and how the efficiency of the appliance is rated in relation to other appliances in the same category.</li> </ul> <p><b>MEPS:</b></p> <ul style="list-style-type: none"> <li>South Africa has put in place regulations that require appliances sold in South Africa to meet Minimum Energy Performance Standards (MEPS). These regulations have been put in place to protect consumers from purchasing appliances that use a wasteful amount of electricity.</li> </ul> 

## GUIDELINES

- Test reports in IEC/EN format or any equivalent format acceptable to the NRCS and issued by an appropriately accredited and internationally recognised body which is a member of an IAF/ILAC/IECEE mutual recognition scheme in accordance with the NRCS's conformity assessment policy.

### Applicable product categories

Product categories that require mandatory energy efficiency labelling include:

- Air conditioners
- Dishwashers
- Electric ovens
- General Service Lamps (GSLs)
- Light bulbs (electric lamps)
- Refrigerators and freezers
- Storage water heater
- Tumble dryers
- Washer-dryer combinations
- Washing machines

To determine if a particular product is subject to the above regulations, please contact us.

The following MEPS have been specified:

Minimum Energy Efficiency Rating of Class A:	Minimum Energy Efficiency Rating of Class B:	Minimum Energy Efficiency Rating of Class C:	Minimum Energy Efficiency Rating of Class D:	Others:
<ul style="list-style-type: none"><li>• Dishwashers</li><li>• Electric ovens (small &amp; medium)</li><li>• Washer-dryers</li><li>• Washing machines</li></ul>	<ul style="list-style-type: none"><li>• Air conditioners</li><li>• Electric ovens (large)</li><li>• Fridges</li><li>• Fridge-freezers</li><li>• Storage water heater</li></ul>	<ul style="list-style-type: none"><li>• Freezers</li></ul>	<ul style="list-style-type: none"><li>• Tumble dryers</li></ul>	<ul style="list-style-type: none"><li>• Audio-visual equipment - In passive standby mode power consumption should not exceed 1 W, except for set-top boxes which must not exceed 3 W.</li></ul>

### TÜV SÜD solutions

TÜV SÜD has the experience and capability to support manufacturers in attaining compliance with South African requirements and obtaining the necessary approval.

TÜV SÜD can also support manufacturers in obtaining voluntary endorsement labels.

# Cybersecurity

05

# Cybersecurity

Cybersecurity is the application of technologies, processes and controls to protect systems, networks, programs, devices and data from cyber attacks. It aims to reduce the risk of cyber attacks and protect against the unauthorised exploitation of systems, networks and technologies.

Mandatory cybersecurity regulations are under review on a global scale, so it is important to consider these in any product development. We summarize the mandatory requirement for certain countries.

Category	Regulations	Regulatory Agency
<b>USA</b>	<ul style="list-style-type: none"> <li>• 2020, IoT Cybersecurity Improvement Act.</li> <li>• 2020, California Act: CA SB 327 and AB 1906</li> <li>• 2020, Oregon Act: HB2395</li> </ul>	<ul style="list-style-type: none"> <li>• Federal government</li> <li>• NIST (National Institute of Standards and Technology)</li> </ul>
<b>Japan</b>	<ul style="list-style-type: none"> <li>• April 2020, Japan Telecommunications Business Act for Direct IP products (router &amp; webcam)</li> </ul>	<ul style="list-style-type: none"> <li>• MIC (Ministry of Internal Affairs and Communications)</li> </ul>
<b>Singapore</b>	<ul style="list-style-type: none"> <li>• 2020, IMDA TS RG-SEC</li> </ul>	<ul style="list-style-type: none"> <li>• IMDA (Infocomm Media Development Authority)</li> </ul>
<b>Brazil</b>	<ul style="list-style-type: none"> <li>• 2021, Act 77 for Terminal equipment that connect to the Internet</li> <li>• 2023, Act 2436 Premises Equipment</li> </ul>	<ul style="list-style-type: none"> <li>• ANATEL (Brazilian National Telecommunications Agency)</li> </ul>
<b>UK</b>	<ul style="list-style-type: none"> <li>• 2024, UK PSTI Act 2022 and the 2023 Regulations</li> </ul>	<ul style="list-style-type: none"> <li>• The Office for Product Safety and Standards (OPSS)</li> </ul>
<b>EU</b>	<ul style="list-style-type: none"> <li>• 2018, General Data Protection Regulation (GDPR)</li> <li>• 2022, (EU) 2022/30 supplementing the radio equipment directive 2014/53/EU(RED)</li> </ul>	<ul style="list-style-type: none"> <li>• European Commission</li> </ul>
<b>India</b>	<ul style="list-style-type: none"> <li>• 2024-07, IP router &amp; WiFi CPE</li> </ul>	<ul style="list-style-type: none"> <li>• Telecommunication Engineering Centre (TEC)</li> </ul>

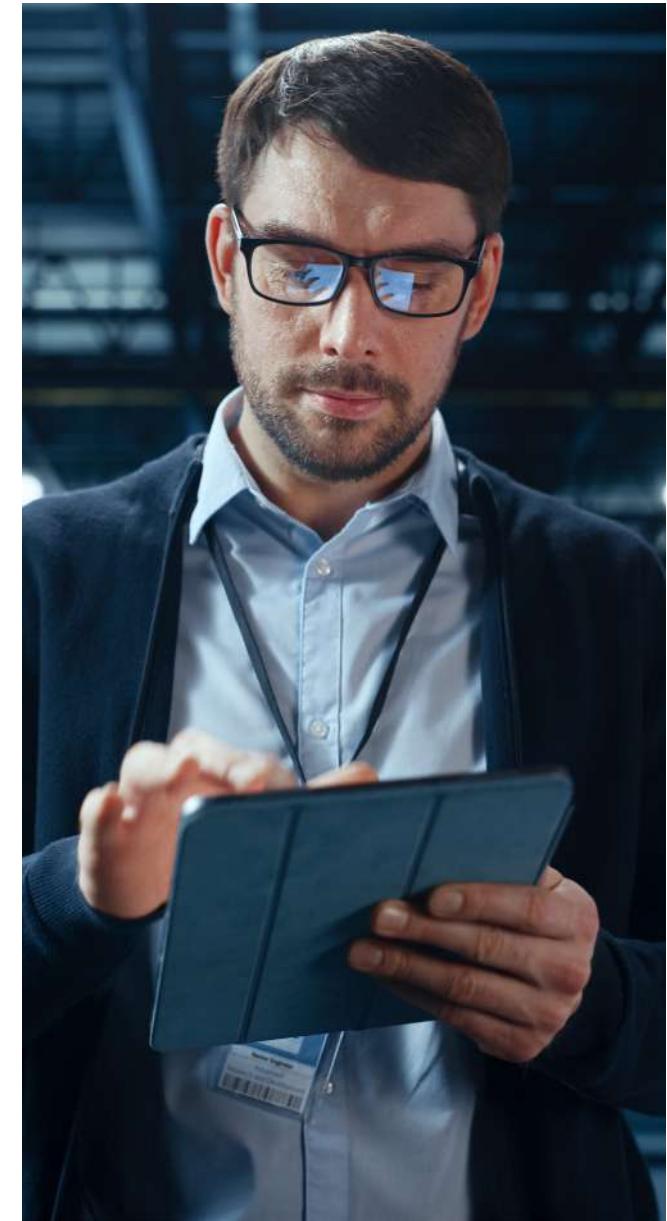


TÜV SÜD also provide the voluntary cybersecurity testing and certification service. The TÜV SÜD CSC certification mark can be applied through the testing with internationally recognized standards and it is available in three test levels: basic, substantial and high. The TUV CSC certification mark can be applied for IoT, the entire eco-system (cloud, app) as well as the security-related company processes, to reduce product security vulnerabilities and ensure long-term cybersecurity.



#### TÜV SUD cybersecurity solutions

TÜV SÜD has a global network of test facilities which is home to numerous cybersecurity experts. We can perform testing according to the latest standards, as well as providing bespoke risk assessments, tests and cybersecurity training. Besides the consumer products, we can also provide testing service to medical and industrial products.



# TÜV SÜD Group

06

06

# TÜV SÜD group

## Your business benefits

Today's competitive business environment is driven by speed, price, innovation, quality and safety. TÜV SÜD is the leading technical solutions partner that will support you with the right business tools, expertise and experience.

At TÜV SÜD, we will help you deliver world class products and services to access your key international markets. With us, you achieve and retain a competitive edge.

Partnering TÜV SÜD offers tangible economic benefits:

- Shorter time-to-market
- Increased international market access
- Improved product and process quality and safety
- Reduced costs and inefficiencies
- Increased productivity and profit
- Minimised business risks
- Brand reputation gain
- ...plus a commitment towards environmental protection and the social welfare of employees

## Why choose TÜV SÜD?

As a globally renowned solutions provider, TÜV SÜD has strong working relationships with regulators and national certification bodies in key markets. We are designated as a Conformity Assessment Body through Mutual Recognition Agreements (MRA) with various regulators across the globe for issuing test reports/Certificate of Approval for products sold to the countries of MRA partners. We act as a Notified Body for various European Directives and are authorised by OSHA as a Nationally Recognized testing Laboratory (NRTL) in America. We participate actively in the international Conformity Assessment arena, such as the IECEE CB Scheme, where we are among the top issuers of certificates for the product categories. Our GMA service is accessible to you worldwide through our team of dedicated GMA managers who are able to work and converse in your language.

## Add value. Inspire trust.

TÜV SÜD is a trusted partner of choice for safety, security and sustainability solutions. It specialises in testing, certification, auditing and advisory services. Since 1866, the company has remained committed to its purpose of enabling progress by protecting people, the environment and assets from technology-related risks. Through more than 24,000 employees across over 1,000 locations, it adds value to customers and partners by enabling market access and managing risks. By anticipating technological developments and facilitating change, TÜV SÜD inspires trust in a physical and digital world to create a safer and more sustainable future.

# Quick Reference Overview

07

A photograph of a man and a woman standing in a television store. The man, wearing a blue shirt, has his arm around the woman and is pointing towards a display of flat-screen televisions. The woman, wearing a white blouse, is looking in the same direction. In the background, there are more televisions on display and a sign that reads "HOME CINEMA".

## Benefit from an expert partnership

With in-depth understanding of the latest changes and updates to the various guidelines and regulations, our GMA team can provide services at each stage of your product approval process, from testing, inspection and approval to post-approval.

# Quick Reference Overview

## Mandatory conformity requirements as of May 2024

COUNTRY/REGION	ELECTRICAL SAFETY	TELECOM	WIRELESS	ENVIRONMENTAL/ENERGY EFFICIENCY
Europe				
Azerbaijan	AZS LVD COC AZS EMC COC	MINCOM COC	MINCOM COC	NA
Eurasian Economic Union (EAEU)	EAC Mark	NA	NA	EAC Mark, RoHS
European Union	CE Marking	CE Marking	CE Marking	CE Marking, Energy Efficiency Labelling, WEEE & RoHS compliance
Kazakhstan	EAC Mark	NA	NA	RoHS
Moldova	INSM Mark	INSM Mark	INSM Mark	Energy Efficiency Label
Serbia	NA	Serbian Mark of Conformity (3A)	Serbian Mark of Conformity (3A)	Energy Efficiency Label
United Kingdom (UK)	UKCA	UKCA	UKCA	UKCA, Energy Information, RoHS
Uzbekistan	STZ Mark	MITC	MITC	Energy Efficiency Label
The Americas				
Argentina	S-Mark	ENACOM Approval	ENACOM Approval	Energy Efficiency Labelling

COUNTRY/REGION	ELECTRICAL SAFETY	TELECOM	WIRELESS	ENVIRONMENTAL/ENERGY EFFICIENCY
Brazil	INMETRO Mark	ANATEL Approval	ANATEL Approval	PROCEL Labelling Program and MEPS
Canada	SCC Certification	ISED Approval	ISED Certification	EnerGuide Labelling Program, MEPS & WEEE compliance
Chile	SEC Certification	SUBTEL Approval	SUBTEL Approval	Energy Efficiency Approval
Colombia	RETILAP, RETIE	CRC	CRC	RETIQ
Ecuador	CoC	ARCOTEL	ARCOTEL	Energy Efficiency Label
Mexico	NOM Certification	IFT Mark	IFT Mark	Energy Efficiency Labelling & MEPS
United States of America	NRTL Certification	ACTA Approval	FCC Approval	EnergyGuide Labelling, MEPS & Californian RoHS compliance
<b>Australasia</b>				
Australia	RCM	RCM Mark	RCM Mark	Star Rating Label Scheme & MEPS
New Zealand	RCM	Telepermit	RCM Mark, R-NZ	Star Rating Label Scheme & MEPS
<b>Asia</b>				
Brunei Darussalam	DES Registration	AITI Approval	AITI Approval	NA
Cambodia	ISC Certification	TRC Type Approval	TRC Type Approval	NA
China	CCC Mark	NAL Certification	SRRC Approval	China Energy Label Registration, MEPS & RoHS compliance

COUNTRY/REGION	ELECTRICAL SAFETY	TELECOM	WIRELESS	ENVIRONMENTAL/ENERGY EFFICIENCY
Hong Kong	EMSD Certification	OFCA Certification	OFCA Certification	MEELS
India	CRS and ISI Certification	TEC Approval	WPC Approval	Star Label (BEE)
Indonesia	SNI Mark	SDPPI Approval	SDPPI Approval	MEPS, Energy Label
Japan	PSE Mark	MIC Approval	MIC Approval	Top Runner Program, Energy-saving Labelling Program, WEEE & RoHS compliance
Korea (South)	KC Mark	KC Mark	KC Mark	Energy Efficiency Labelling & MEPS, WEEE & RoHS compliance
Malaysia	SIRIM Label or Certification Mark	SIRIM MCMC Approval	SIRIM MCMC Approval	MEPS, Energy Label
Mongolia	MASM Approval	CRC Approval	CRC Approval	NA
Philippines	PS Certification or ICC Mark	Philippines NTC Certification	Philippines NTC Certification	Energy Efficiency Labelling
Singapore	Safety Mark	IMDA Equipment Registration	IMDA Equipment Registration	NEA Registration, RoHS, E-waste
Taiwan	BSMI Mark	NCC Approval	NCC Approval	Energy Rating Label, MEPS
Thailand	TISI Mark	Thai NBTC Approval	Thai NBTC Approval	TISI Mark, Energy Efficiency Labelling & MEPS
Vietnam	CR Mark	ICT Mark	ICT Mark	Energy Label
<b>Middle East</b>				
Algeria	Algerian COC	ARPCE	ARPCE	NA
Egypt	GOEIC COI	NTRA	NTRA	Energy Efficiency Labelling
Gulf Cooperation Council (GCC)	GCC Conformity Marking	NA	NA	NA

COUNTRY/REGION	ELECTRICAL SAFETY	TELECOM	WIRELESS	ENVIRONMENTAL/ENERGY EFFICIENCY
Israel	Type Approval	MoC Approval	MoC Approval	Type approval and Energy Efficiency Label
Kenya	KEBS	CA Type Approval	CA Type Approval	Energy Efficiency Labelling
Kuwait	GCC, TER & TIR	Type Approval	Type Approval	Energy Efficiency Labelling
Nigeria	SONCAP	NCC	NCC	NA
Saudi Arabia	GCC, SALEEM, IECEE Recognition Certificate	Equipment approval	Equipment approval	Energy Efficiency Labelling
Sultanate of Oman	Type Examination Certificate	Type Approval	Type Approval	Energy Efficiency Rating Label
United Arab Emirates	GCC, ECAS Registration Certificate	TDRA Approval	TDRA Approval	Energy Efficiency Labelling
<b>Africa</b>				
South Africa	NRCS LoA and SABS CoC	ICASA Approval	ICASA Approval	Energy Efficiency Labelling & MEPS

**Disclaimer:** This table overview serves only as a guide for country conformity requirements. For more information, please contact your local TÜV SÜD expert.

# Appendix

08

## 08

# Appendix

Detailed information about plugs and sockets can be found in the IEC International Standards referred to in this section, or in the relevant national standards of each country.

## Plug Type

Type A		The Type A electrical plug (or flat blade attachment plug) is an ungrounded plug with two flat parallel pins.
Type B		The Type B electrical plug has two flat parallel pins and a round grounding (or earth) pin. The earth pin is longer than the other two so that the device is grounded before the power is connected.
Type C		The Type C electrical plug (or Europlug) is a two-wire plug that has two round pins. It fits into any socket that accepts 4.0 – 4.8 mm round contacts on 19 mm centres.
Type D		The Type D electrical plug has three large round pins in a triangular pattern.
Type E		The Type E electrical plug has two 4.8 mm round pins spaced 19 mm apart and a hole for the socket's male earthing pin. The Type E plug has a rounded shape and the Type E socket has a round recess.
Type F		The Type F electrical plug (also known as a Schuko plug) has two 4.8 mm round pins spaced 19 mm apart. It is similar to the Type E plug but has two earth clips on the side rather than a female earth contact.

## PLUG TYPE

<b>Type G</b>		The Type G electrical plug has three rectangular blades in a triangular pattern and has an incorporated fuse (usually a 3 amps fuse for smaller appliances such as a computer and a 13 amps one for heavy duty appliances such as heaters).
<b>Type H</b>		The Type H plug is unique to Israel and has two flat pins in a V-shape as well as a grounding pin. It is however currently being phased out in favour of a round-pinned version. The holes in Type H sockets are wide in the middle so as to accommodate the round-pinned version of the Type H plug as well as Type C plugs.
<b>Type I</b>		The Type I plug has two flat pins in a V-shape as well as a grounding pin. A version of the plug, which only has the two flat pins, exists as well.
<b>Type J</b>		The Type J plug has two round pins as well as a grounding pin. Although the Type J plug looks a lot like the Brazilian Type N plug it is incompatible with the Type N socket as the earth pin is further away from the centre line than on Type N.
<b>Type K</b>		The Type K plug has two round pins as well as a grounding pin.
<b>Type L</b>		There are two variations of the Type L plug, one rated at 10 amps, and one at 16 amps. The 10 amp version has two round pins that are 4 mm thick and spaced 5.5 mm apart, with a grounding pin in the middle. The 16 amp version has two round pins that are 5 mm thick, spaced 8mm apart, as well as a grounding pin.
<b>Type M</b>		The Type M plug has three round pins in a triangular pattern and looks similar to the Indian Type D plug, but its pins are much larger. Type M plugs are sometimes used for bigger appliances in countries that make use of Type D plugs, as well as in Israel (Type H).
<b>Type N</b>		There are two variations of the Type N plug, one rated at 10 amps, and one at 20 amps. The 10 amp version has two round pins that are 4 mm thick, and a grounding pin. The 20 amp version, used for heavier appliances, has two round pins 4.8 mm in diameter, and a grounding pin. The Type N socket was designed to work with Type C plugs as well.

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