



# CryptoServer LAN

Se-Series

Operating Manual

**utimaco**<sup>®</sup>

## Imprint

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# 1 Introduction

Thank you for purchasing our CryptoServer LAN security system with an integrated CryptoServer Se plug-in card (referred to below as CryptoServer LAN). We hope you are satisfied with our product. Please do not hesitate to contact us if you have any complaints or comments.

## 1.1 About this Manual

The Utimaco IS GmbH reserves the right to modify or amend this manual at any time without prior notice. Utimaco IS GmbH assumes no liability for typographical errors and damages incurred due to them.

### 1.1.1 Target Audience for this Manual

This manual is intended for system administrators who bring the CryptoServer LAN with an integrated CryptoServer Se-Series into service and administer it.

### 1.1.2 Contents of this Manual

In this operating manual you will find all the necessary information for using the hardware of the CryptoServer LAN as well as essential security instructions that are to be followed in order to ensure that the device can be operated safely.

### 1.1.3 Document Conventions

We use the following conventions in this manual:

<i>Convention</i>	<i>Usage</i>	<i>Example</i>
<b>Bold</b>	Items of the Graphical User Interface (GUI), e.g., menu options	Press the <b>OK</b> button.
<b>Monospaced</b>	File names, folder and directory names, commands, file outputs, programming code samples	You will find the file <b>example.conf</b> in the <b>/exmp/demo/</b> directory.
<i>Italic</i>	References and important terms	See Chapter 3, "Sample Chapter" in the <i>CryptoServer LAN/CryptoServer CryptoServer Command-line Administration Tool -csadm -Manual for System Administrators</i> .

We have used icons to highlight the most important notes and information.



*Here you find important safety information that should be followed.*



*Here you find additional notes or supplementary information.*

## 1.2 Other Manuals

The CryptoServer is supplied as a PCI-Express (PCIe) plug-in card in the following series:

- CryptoServer CSe-Series
- CryptoServer Se-Series

The CryptoServer LAN (appliance) is supplied in the following series:

- CryptoServer LAN CSe-Series
- CryptoServer LAN Se-Series

We provide the following manuals on the product CD for the CryptoServer PCIe CSe- and Se-Series plug-in cards and for the CryptoServer LAN (appliance) CSe- and Se-Series:

### Quick Start Guides

You will find these manuals in the main folder of the SecurityServer product CD. They are available only in English, do not cover all possible scenarios, and are intended as a supplement to the product documentation provided on the SecurityServer product CD.

- *CryptoServer LAN - Quick Start Guide*

If you are looking for step-by-step instructions on how to bring the CryptoServer LAN into service, how to prepare a computer (Windows 7) for the CryptoServer administration and how to start administrating your CryptoServer with the Java-based GUI CryptoServer Administration Tool (CAT), read this document.

- *CryptoServer PCIe - Quick Start Guide*

If you are looking for step-by-step instructions on how to bring the CryptoServer PCIe plug-in card into service, how to install the CryptoServer driver on a computer with minimal RHEL 7.0 installation and how to start administrating your CryptoServer with the CryptoServer Command-line Administration Tool (csadm), read this document.

## Manuals for System Administrators

You will find these manuals on the product CD in the following folder:

...Documentation\Administration Guides\

- *CryptoServer - Manual for System Administrators*  
If you need to administer a CryptoServer PCIe plug-in card or a CryptoServer LAN using the CryptoServer Administration Tool (CAT), read this manual. Furthermore, this manual provides a detailed description of the CryptoServer functions, required for the correct and effective operation of the product.
- *CryptoServer LAN - Manual for System Administrators*  
If you need to administer a CryptoServer LAN (appliance), read this manual. Since a CryptoServer plug-in card is integrated into the CryptoServer LAN, please read the *CryptoServer - Manual for System Administrators*, as well.
- *CryptoServer LAN/CryptoServer - Troubleshooting*  
If problems occur while you are using a CryptoServer PCIe plug-in card or a CryptoServer LAN (appliance), read this manual.
- *CryptoServer LAN/CryptoServer*  
*PKCS#11 CryptoServer Administration Tool – Manual for System Administrators*  
If you need to administer the PKCS#11 R2 interface with the PKCS#11 CryptoServer Administration Tool (P11CAT), read this manual.
- *CryptoServer LAN/CryptoServer*  
*CryptoServer Command-line Administration Tool - csadm - Manual for System Administrators*  
If you need to administer a CryptoServer PCIe plug-in card or a CryptoServer LAN using the CryptoServer Command-line Administration Tool (csadm), read this manual (only English version available).

## Operating Manuals

You will find these manuals on the product CD in the following folder:

...Documentation\Operating Manuals\. They contain all the necessary information for using the hardware of the CryptoServer PCIe plug-in card respectively the CryptoServer LAN (appliance).

## 1.3 Import and Export Regulations



*The export and use of CryptoServer LAN outside Germany is subject to the legal foreign trade regulations of the Federal Republic of Germany and requires the appropriate authorization. The import of CryptoServer LAN is subject to the legal requirements or other regulations that apply in the particular destination (import license)*

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*Please contact your own national customs authorities for more detailed information.*

---

## 1.4 Damage in Transit

By purchasing CryptoServer LAN you have acquired a device that has been carefully tested and packed for delivery. Nevertheless, damage may occur during transport or improper temporary storage.

If you discover that the transport boxes are damaged when they arrive, please immediately contact your reseller or Utimaco IS GmbH (the address and telephone number are given in Chapter 8, "Contact Address for Support Queries"). Please have the delivery note and the device's serial number ready

## 1.5 Deliverables

The CryptoServer LAN deliverables include:

- one CryptoServer LAN
- one power supply cable
- one *CryptoServer LAN Se-Series Operating Manual* (this manual)
- one PIN pad
- ten smartcards for administering CryptoServer LAN.



## 2 General Safety Instructions



*Please follow all the warnings, safety notes and instructions given on the device or in this manual. If you fail to do so, Utimaco IS GmbH will not accept any liability for any resulting damage caused.*

The CryptoServer LAN includes a CryptoServer Se. If the predefined limit values for its internal temperature are exceeded (or not reached), all the data on the CryptoServer Se will be deleted.



*Before unpacking the device and bringing it into operation, please read the safety instructions below carefully to ensure that the device can be operated safely. Always keep these instructions handy, in a safe place.*

### 2.1 Moving and Storing

When moving and storing the device, please follow these instructions:

- Before moving CryptoServer LAN, ensure that the power supply cable has been pulled out of the socket and that all other connection cables have been removed from the other devices.
- CryptoServer LAN should only be moved and stored in its original packaging.
- You must make sure that CryptoServer LAN is always stored at temperatures between -10°C and +55°C (+14°F to +131°F).
- Do not subject the device to impacts and vibrations or any other physical events that may damage the packaging.
- If the device is to be stored for a longer time period, ensure that the battery replacement time is not exceeded.
- Keep this manual together with your CryptoServer LAN so that it is handy if you need to reinstall the system.

### 2.2 Environmental Temperature

CryptoServer LAN must only be operated and stored in a particular temperature range.

- You must make sure that CryptoServer LAN is always stored at temperatures between -10 °C and +55 °C (+14 °F to +131 °F).

- You must make sure that CryptoServer LAN is always operated at temperatures between +10 °C and +50 °C (+50 °F to +122 °F).



*If the environmental temperature is out of the permitted range, the device sensor will delete all the data on it.*

## 2.3 19" Rack

Brackets are attached to either side of the device so that CryptoServer LAN can be installed in a 19" rack.

- Before it is installed in a 19" rack, CryptoServer LAN must be placed on rails that are strong enough to bear its weight. You must ensure that the device is evenly balanced and is placed squarely on the rails to ensure that it is stable. To ensure the weight is evenly distributed, do not stack too many devices on each set of rails. Find out what weight load the rails will bear.
- To install CryptoServer LAN in a 19" rack, simply attach the securing brackets to the 19" rack.
- The temperature inside the 19" rack may be higher than the temperature outside the 19" rack. This is particularly true if several devices are installed in the same 19" rack. Please ensure that the temperature inside the 19" rack does not exceed the maximum permitted environmental temperature.
- Take care that, when you install the device in a 19" rack, the ventilation slots are kept free to ensure that air circulates enough.
- You can use slide rails for the installation of the CryptoServer LAN in a 19" rack which you can purchase from the manufacturer Utimaco IS GmbH.

## 2.4 Desktop

If you do not want to install CryptoServer LAN in a 19" rack, please note the following:

- Place the device on a secure, stable surface. Avoid impacts and blows to the device.
- Never operate CryptoServer LAN close to water or other liquids. Never spill liquid on the device.
- Do not place objects, articles of clothing or papers on the device itself.
- Protect CryptoServer LAN against humid or dusty environments, vibrations, extreme temperature variations and direct sunlight. Do not place the device next to heating units, air conditioning units, etc.

- Ensure that the maximum permitted environmental temperature is not exceeded.
- Ensure adequate ventilation. Never install the device in a cabinet or similar object in which the circulation of air is impeded. The ventilation slots on the device must never be covered.
- Do not connect the device to sockets that are switchable or have timers.
- Avoid connecting the device to electrical circuits to which other power-hungry devices (such as motors, air conditioning units, photocopiers etc.) are connected. This would put the device at risk of sudden power fluctuations.



*This device has not been designed for use at a workstation within the user's field of vision. To avoid disturbing reflections, do not place this product at a workstation directly in the field of vision.*

## 2.5 Power Supply and Power Supply Cable

The CryptoServer LAN is equipped with an alternating current (AC) power supply. It can be connected to power voltage of 90 V to 264 V (AC).



*Check the power voltage. Connecting CryptoServer LAN to the incorrect power voltage may destroy the device.*

- Check the electrical connection to the power circuit to ensure it will not be overloaded.
- Ensure that the device's electrical connection is properly earthed. If you connect several devices together, their total power consumption may exceed the total safe limit.
- Handle the power supply cable carefully. Always disconnect it by pulling on the plug, not on the cable itself. Pulling on the cable loosens the contacts and can cause problems.
- Protect the power supply cable against physical damage. Never place furniture or other heavy objects on the power supply cable and do not drop any sharp-edged or heavy objects on it.
- Do not tie knots in the power supply cable.

## 2.6 Opening the Device

CryptoServer LAN must only be opened by the employees of Utimaco IS GmbH or certified sales partners.



*If CryptoServer LAN is opened by someone else, instead of an employee of Utimaco IS GmbH or a certified sales partner, Utimaco IS GmbH accepts no liability for any damage caused by opening the device.  
However, if there is an urgent need to open the device, it is essential that the power supply plug is removed from the socket before the device is opened.*

To ensure that CryptoServer LAN cannot be opened without anyone noticing, there are two security seals on the device itself. The following information is given on these seals:



*No warranty if seal is broken!  
A broken seal is a security risk!  
Please contact the security administrator!*

- To avoid the risk of electrical shocks or fires, do not attempt to tamper with any components inside the device.
- Do not attempt to repair CryptoServer LAN in any way.
- If water, wires or other parts penetrate the device by accident, immediately disconnect the power supply cable and inform your dealer or Utimaco IS GmbH. If you operate the device in this condition, you risk either causing a fire, or electrical shocks.
- Do not insert any objects into the openings in the CryptoServer LAN casing because they may hit live components and cause a short circuit. This may result in a fire or a life-threatening electrical shock.
- Incorrect or improper use may seriously damage CryptoServer LAN.

## 2.7 Batteries

The CryptoServer LAN contains two batteries. These ensure that no security-critical information is lost or deleted in the CryptoServer Se when the device is switched off, or if operation is interrupted due to a power failure. The *External Battery* is located in the battery compartment of the CryptoServer LAN. The *Carrier Battery* is placed on the carrier of the CryptoServer Se.



*These batteries are not rechargeable.*

*Using the wrong batteries may cause an explosion. Utimaco IS GmbH accepts no liability for damage caused by using any other batteries except the ones supplied by Utimaco IS GmbH.*

### 2.7.1 External Battery in the Battery Compartment

The battery compartment behind the CryptoServer LAN's front door contains one 3.6 V lithium battery (size D) which is directly connected to the CryptoServer Se.

This battery is already in use when the device is supplied.



*The External battery can power the CryptoServer Se for at least two years if the device is not connected to a power supply with the power supply cable. Check the status of this battery at regular intervals. When the battery reaches a critically low power level, it must be replaced.*

Customers are permitted to change the *External Battery*.

### 2.7.2 Carrier Battery of the CryptoServer Se

The CryptoServer Se has a 3 V lithium battery. The *Carrier Battery* powers the sensor and the quenching circuit when CryptoServer LAN is switched off and the *External Battery* in the battery compartment does not have enough power to supply the CryptoServer Se.



*The Carrier Battery can power the CryptoServer Se for at least six months.*

*The Carrier Battery must only be replaced by an employee of Utimaco IS GmbH or one of its certified sales partners.*

## 2.8 Cleaning

- Clean CryptoServer LAN with a soft, clean cloth dampened with a mild soapy solution. Then dry the device with a clean dry cloth.
- If the device has become wet, wipe it with a clean, dry, soft cloth.
- Never use benzene, thinner, alcohol or other aggressive substances to clean the device.

## 3 Bringing into Service

Before you start up CryptoServer LAN, check whether all its parts are present:

- one CryptoServer LAN
- one power supply cable
- one *CryptoServer Se-Series LAN Operating Manual* (this Manual)
- one PIN pad
- ten smartcards for administering CryptoServer LAN.

### 3.1 Ports and Interfaces on the Rear Face



- 1 Power supply switch (switches power on/off)
- 2 Power supply socket
- 3 CryptoServer Se
- 4 External serial port of the CryptoServer Se for connecting peripheral devices such as a PIN pad or log terminal
- 5 USB port for CryptoServer Se
- 6 VGA connector (screen)
- 7 Ethernet port 10/100/1000 (RJ45) **eth0**
- 8 Ethernet port 10/100/1000 (RJ45) **eth1**
- 9 Two USB ports

## 3.2 Ports and Operating Elements on the Front Face



- 1 PS/2 power supply for PIN pads. Can also be used as a keyboard connector (without PS/2 Y adapter).
- 2 Serial port for CryptoServer LAN administration
- 3 Serial port of the CryptoServer Se
- 4 USB 2.0 port of the CryptoServer Se
- 5 Light to show when the device is in operation
- 6, 7 Buttons for CryptoServer LAN menu control
- 8 Two USB 2.0 ports of the CryptoServer LAN
- 9 **Mute** button for the signal tone that sounds if a power supply fails or is switched off
- 10 On/off switch
- 11 Two USB 2.0 ports of the CryptoServer LAN
- 12 Battery compartment



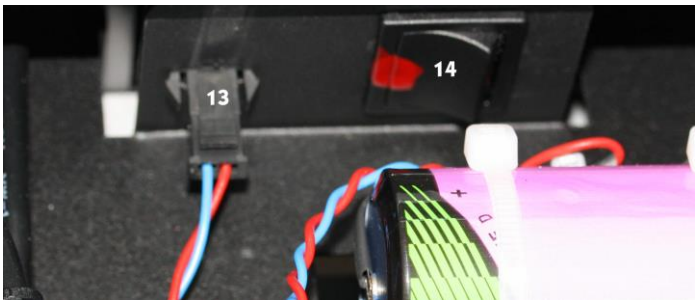
*The Connectors and operating elements 8 to 12 are located behind the front door on the right of the front face.*

## 3.3 Connectors and Operating Elements in the Battery Compartment

The battery compartment 12 is designed like a drawer that you simply pull to open.

Inside the battery compartment there is a plug 13 for the size D 3.6V lithium battery used by CryptoServer LAN to provide power to the sensor system and the quenching switch for when the device is switched off.

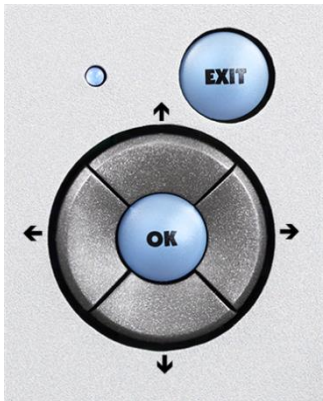
Behind this battery you will find a sealed delete switch 14.



*If you press this switch 14 you will trigger the deletion procedure in the CryptoServer Se and all the security-critical information will be deleted.  
The resulting maintenance tasks are not covered by Utimaco IS GmbH's liability.*

### 3.3.1 Menu Control Buttons

There are six menu control buttons.



Button	Meaning
EXIT	Quit the currently displayed menu level or menu item
OK	Select the menu level or confirm the menu item
↑	Move up in the menu control
→	Move to the right in the menu control
↓	Move down in the menu control
←	Move to the left in the menu control




### 3.4 Bringing the CryptoServer LAN into Service

To bring the device into operation, follow these steps:

1. Put the CryptoServer LAN in a 19" rack or put it in the place where you want.
2. Connect the power supply socket **2** on the rear face of the CryptoServer LAN to a power supply using the power supply cable supplied with the device.
3. Connect the Ethernet port **7** on the rear face of the CryptoServer LAN to your network with a twisted pair cable (RJ45).
4. Switch on the power switch **1** on the rear face of the CryptoServer LAN.
5. Press the on/off switch **10** on the front of the device to switch on the CryptoServer LAN.

After a few seconds you will hear a short signal tone and see the first messages on the display panel on the front of the device.

After approximately 30 seconds, CryptoServer LAN will be ready for use. You will see this status information on the display panel:

CryptoServer Se		
Mode: Operational	 OK	Temp.: 31,0 °C
Trans./min.:	0	Clients: 1
Load:		0 %

## 4 Maintenance

The only maintenance task that a customer is permitted to perform on the CryptoServer LAN is to check the power level of the batteries and if necessary to change the *External Battery* in the battery compartment. When the *External Battery* reaches a critically low power level, it must be replaced.


Apart from this, no maintenance tasks should be carried out on the CryptoServer LAN.



*If you should open CryptoServer LAN for any other maintenance work, all liability claims against Utimaco IS GmbH become null and void.*

### 4.1 Checking the Battery Status

The CryptoServer LAN displays **LOW** when the *External Battery* in the battery compartment or the *Carrier Battery* of the CryptoServer PCI reaches a critical power level.

CryptoServer Se		
Mode: Operational	 LOW	Temp.: 31,0 °C
Trans./min.:	5	Clients: 1
Load:		0 %

To find out which of these batteries has reached this critical power level, follow these steps:

1. Click **OK**.
2. Click the ▼ button to select the **CryptoServer Administration** menu item and then click **OK**.
3. Click **OK** to select **Show CryptoServer Info**.
4. Use the direction key ▼ to go to the **Battery State** menu item and then click **OK**.

In the CryptoServer LAN display, the Battery State is shown as follows:

```
Battery State:
Carrier Battery:  LOW  (1.104 V)
External Battery:  LOW  (1.574 V)
```



*If the system could not find out the battery state, because the CryptoServer Se register is currently being accessed by someone else, then you should try to find out the battery state again after waiting a few minutes.*



*In the case of CryptoServer LAN you can change External Battery.  
The Carrier Battery of the CryptoServer Se must only be replaced by the manufacturer, Utimaco IS GmbH or a certified sales partner.*

- If the *External Battery* state displayed is **LOW**, it means the CryptoServer LAN's battery charge has sunk to a critical level. You must now immediately, and whilst the device is in operation, replace the *External Battery* in the battery compartment.
- If the *Carrier Battery* state displayed is **LOW**, it means the power level of the CryptoServer Carrier Battery has sunk to a critical level. In this case, contact Utimaco IS GmbH or a certified sales partner and have them replace the *Carrier Battery* of the CryptoServer Se.

## 4.2 Replacing the External Battery

To replace the *External Battery* in the CryptoServer LAN's battery compartment you will need a battery replacement kit which you can purchase from Utimaco IS GmbH, and a wire cutter.



*This battery is not rechargeable.  
Using the wrong batteries may cause an explosion.  
Utimaco IS GmbH accepts no responsibility for damage caused by any batteries other than those supplied by Utimaco IS GmbH.  
Please ensure you dispose of spent batteries in accordance with the manufacturer's instructions and in an environmentally responsible manner.*

The battery replacement kit includes a 3.6 V lithium battery (with a connection plug) a cable tie and a metal hook that you use to open the battery compartment.

You should replace the battery whilst the device is running normally so that the CryptoServer Se will continue to be supplied with power.

1. Open the front door of the CryptoServer LAN.
2. Insert the ends of the hook in the holes in the battery compartment as shown in the next picture.

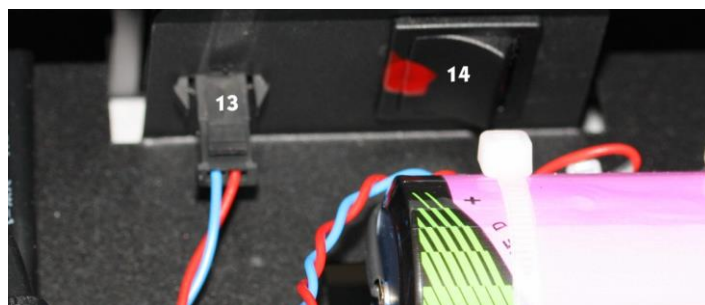


3. Now carefully pull out the battery compartment.



*During the next steps, take great care not to touch the delete switch on the back wall of the battery compartment.*

4. Unplug the power supply plug **13** from the back wall of the battery compartment.



5. Use the wire cutter to carefully disconnect the cable tie from the battery.

6. Remove the cable tie and then take the battery out of the compartment.
7. Now place the new battery in the battery compartment. Then guide the new cable tie through the two holes in the battery compartment again and pull it gently to secure it.
8. Plug the power supply plug **13** of the new battery into the back wall of the battery compartment.
9. Close the battery compartment.
10. Check the battery state as described in Chapter 4.1, "Checking the Battery Status".



*The battery power level shown in the display of the CryptoServer LAN is not updated very frequently. Therefore, we recommend you to wait for at least three minutes before checking the battery state.*

The Battery State is shown as follows:


```
Battery State:
Carrier Battery:  ok  (3.089 v)
External Battery: ok  (3.574 v)
```

If the *External Battery* State is shown as **absence**, check that the new battery has been connected correctly.

## 5 Switching off the CryptoServer LAN

Before you switch off the CryptoServer LAN, please close down all the applications that access it.

The following status message in the display panel is the reference point for the next steps. If you are currently working in a particular menu level or an input screen, quit this by pressing the **EXIT** button. You may need to do this several times.

CryptoServer Se			
Mode: operational	 OK	Temp.:	31,0 °C
Trans./min.:	5	Clients:	1
Load:			0 %

Then use the menu control to switch off the CryptoServer LAN as follows:

1. Click **OK**.
2. Select the **CSLAN Administration** menu item and click **OK**.
3. Use the direction key **↓** to go to the **Shutdown** menu item and then click **OK**.
4. Use the direction key **←** to select **Yes** and click **OK**. This shuts down the device.

When the device is switched off, the message in the display panel disappears. If you want to switch off CryptoServer LAN completely, switch off the power supply switch **1** on the rear face of the device.



*The CryptoServer LAN should be kept running constantly to prevent the batteries from being used.*

*If a system is inactive for a long period, the batteries will be used up. After a while this can result in the CryptoServer Se no longer being supplied with power, and all the data will be deleted. The resulting maintenance tasks are not covered by Utimaco IS GmbH's liability. On the other hand, a brief interruption to the power supply (if the device is being moved around etc.) does not place a serious demand on the batteries and consequently there is no danger of data and settings etc. being deleted.*

## 6 Disposing of the CryptoServer LAN

In this chapter you can find out what you need to take into account when you want to dispose of your CryptoServer LAN.



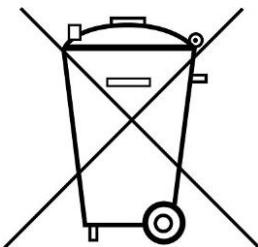
*Ensure that all sensitive data has been deleted from your CryptoServer LAN. For information on how to securely delete all sensitive data from your CryptoServer LAN, with the **Clear** command, please refer to the manual SafeGuard CryptoServer - Manual for System Administrators.*

Of course, you also have the option of returning the CryptoServer LAN that you no longer require to us, Utimaco IS GmbH, as the manufacturer. In this case, we will take care for disposing of the CryptoServer LAN and the batteries in an environmentally friendly way.

In the CryptoServer LAN you will find three batteries which must be disposed of in an environmentally friendly way.

- The 3.6 V lithium battery made by Saft  
The battery is located inside the battery compartment. The battery compartment is behind the front door of the CryptoServer LAN.
- The 3 V lithium battery made by FDK  
The battery is located on the carrier for the CryptoServer Se-Series, which is inside the CryptoServer LAN.
- The 3 V lithium coin cell battery for the mainboard of the CryptoServer LAN.  
This battery is located on the mainboard of the CryptoServer LAN.

Remove all batteries from the CryptoServer LAN and note the following general information about rechargeable and non-rechargeable batteries (in accordance with the German Notice Requirement according to §18 BattG, the Law concerning Batteries).



*You are not permitted to throw away rechargeable or used batteries in the normal household waste.*

*Consumers are obliged to bring batteries to a suitable municipal or commercial collection point.*

*Rechargeable and used batteries can contain harmful materials or heavy metals that can damage the environment and health.*

*Batteries are reused. They contain important raw materials such as iron, zinc, manganese or nickel.*

You can either dispose of the CryptoServer LAN's battery at a suitable municipal or commercial collection point, or send it to us, Utimaco IS GmbH, as the manufacturer.

## 7 Technical Data

Dimensions	Height	88 mm (2 slots (height units))
	Width	446 mm without attachment bracket (19")
	Depth	510 mm excluding handles
Weight	13 kg	
Operating power	90 V ~ 264 V, 47 ~ 63 Hz AC	
Power supply	400 W	
Power consumption (effective/apparent)	Typically 54 W/60 VA, maximum 60 W/65 VA	
Interfaces on front face	1 x PS/2	Combined keyboard connector and power supply for PIN pads
	1 x DB9	CryptoServer LAN serial port ( <b>COM</b> )
	1 x DB9	Serial port of the CryptoServer Se plug-in card ( <b>CS COM</b> )
	1 x USB	USB 2.0 port of the CryptoServer Se plug-in card ( <b>CS USB</b> )
	4 x USB	USB 2.0 ports (behind front door)
Interfaces on rear face	1 x DB15	VGA connector (screen)
	2 x RJ45	10/100/1000 MBit Ethernet
	2 x USB	USB 2.0 port
	1 x USB and 1 x DB9	USB 2.0 port and serial port on CryptoServer Se plug-in card
Environmental temperature	in operation	+10 °C to +50 °C (+50 °F to +122 °F)
	in storage	-10 °C to +55 °C (+14 °F to +131 °F)
Humidity	10 % to 95% relative humidity, non-condensing	
MTBF	110.000 hours at 25 °C/77 °F (in acc. with MIL-HDBK-217)	
RoHS compliance	Yes	
WEEE	National register for waste electric equipment (EAR) DE39805015	



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**Conformity**

Interference emission in accordance with EN 55022 Class B, EN 61000-3-2, EN 61000-3-3

Interference immunity in accordance with EN 55024

Equipment safety in accordance with IEC 60950-1:2001/ EN 60950-1:2001 (CB scheme)

FCC 47 CFR Ch. 1 Part 15 Class B

UL

Operating environments: ETSI EN 300 019: Storage class 1.1, Transport class 2.1 (with temperature range restricted to the storage environmental temperature given above), stationary use in environments that are protected from the weather class 3.1

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## 8 Contact Address for Support Queries

Please feel free to contact us if an error occurs while operating the CryptoServer LAN, or if you have any further questions on CryptoServer LAN.

Utimaco IS GmbH  
Germanusstr. 4  
52080 Aachen  
Germany

You can reach us from Monday to Friday 09.00 a.m. to 05.00 p.m., apart from public holidays and other customs days, under the following phone/fax number and e-mail address:

Phone: +49 (0) 241 1696-153  
Fax: +49 (0) 241 1696-58153  
e-mail: [support-cs@utimaco.com](mailto:support-cs@utimaco.com)

If you need to send the CryptoServer LAN back to the manufacturer, we request that you first send us an e-mail containing a short description of the problem, to this email address:

[rma-cs@utimaco.com](mailto:rma-cs@utimaco.com)