

The background is a vibrant blue with a complex pattern of overlapping, semi-transparent gears of various sizes. In the lower right quadrant, a robotic arm with a yellow and black striped sleeve and a blue and white checkered wristband is visible. The overall aesthetic is high-tech and industrial.

CIMCON

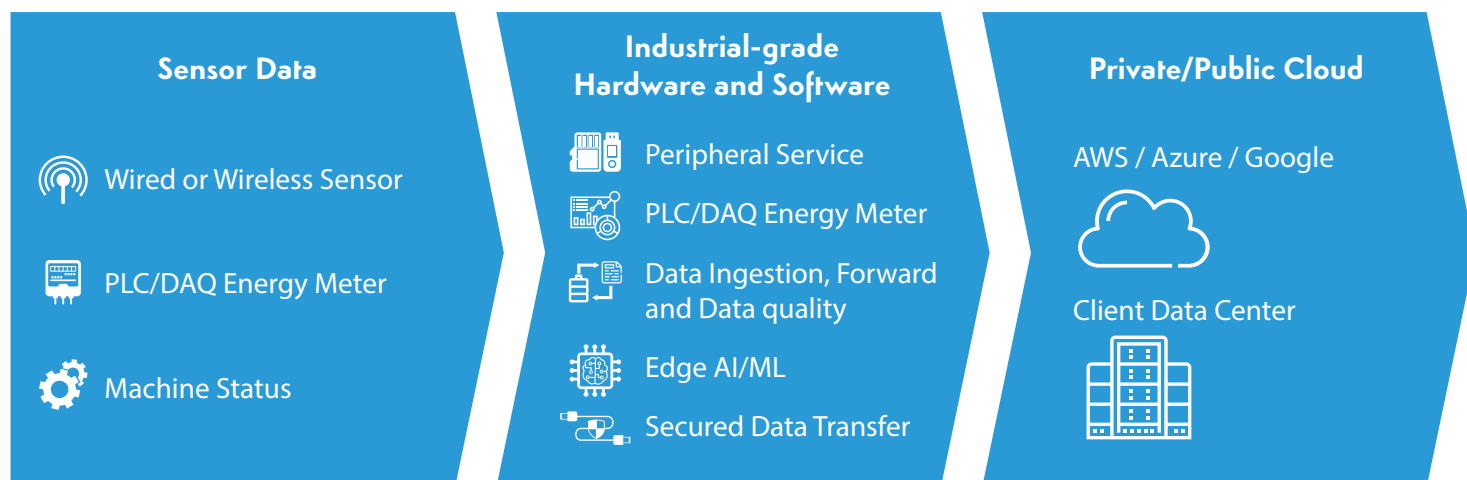
digital

solutions for the digital economy

CIM 10

CIM 10

The most versatile IoT edge platform that drives digital transformation at scale within budget and on time

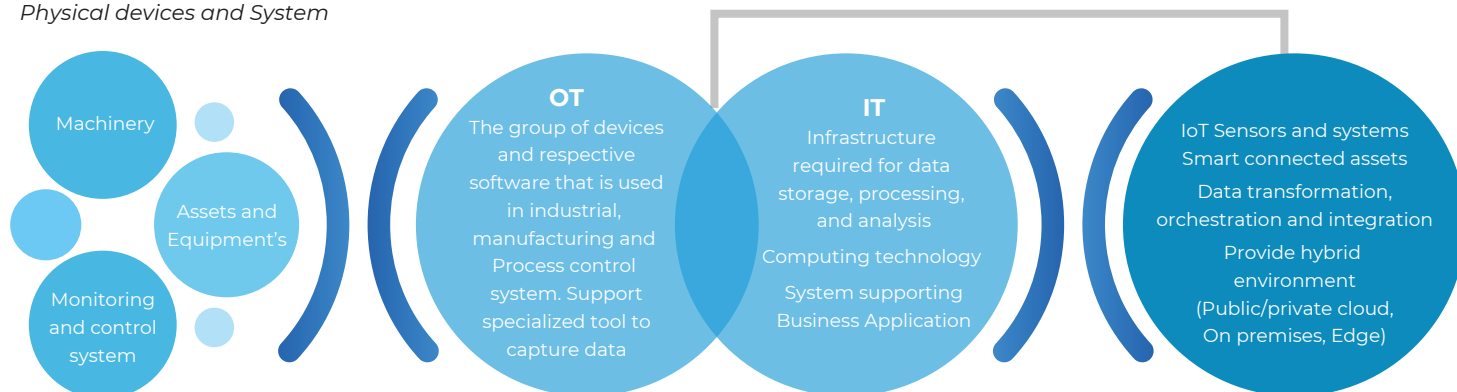


CIMCON Edge platform aims industry to motivate and alleviate in the IIoT transition among different industry by providing an Edge platform with a secured cloud environment and with all the technology needed to make digital transformation directly accessible to industry. CIM 10 helps industry needs to drive more performance from your assets, Collaborate better and generate more value from existing system though operational excellence resulting in offering greater business agility, faster insight , Lower operating cost , faster ROI from digital transformation projects.

CIM 10 helps industry to operate their business in real-time and make smarter decisions by streamlining the processes, take measure before any deviation or fault occurs, optimizing operations and improving safety.

SOLVING THE SHORTCOMING OF OT/IT CONVERGENCE

Physical devices and System



KEY FEATURES

CIM10 provides an end-to-end IIoT solution for all your remote service, monitoring, maintenance needs from hardware to the Cloud. CIM10 is next generation Industrial IoT platform engineered with feature to build IoT solutions for variety of industrial use cases, by supporting variety of protocols to support wide variety of industrial equipment in monitoring, asset tracking, equipment condition monitoring to predictive maintenance.

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Secure and
Reliable



Easy to Install and
Configure



Remote Access



User Management



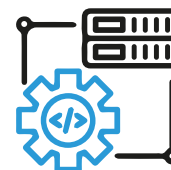
No Code
Environment



White Labelling



Alarms and
Notifications



Historical
Configurable Data

► Multiple Wired and Wireless Connectivity Options:

Equipped with on board Analog and Digital Inputs, RS485, USB- Host, and Bluetooth to connect with various local and remote field Sensors and Devices for ingesting data. Also supports RS232, Gigabit-Ethernet, Wi-Fi and Cellular Networks (2G / 4G) for host Server/Cloud connectivity with various industry standard protocols such as MODBUS, MQTT etc.

► High Speed IO Expansion:

It has got dedicated high speed RS-485 expansion bus to cater to applications with large IO count.

► Computing at the Edge:

CIM 10 is powered with a 1GHz single core processor that offers ample processing power at the Edge. This allows compute intensive AI/ML algorithms, processing of large volumes of data for real time alerts and notifications to be performed close to the asset for fastest possible response time without the costly overhead of communicating the data into the cloud.

► CIM Cloud:

Managing devices connected to the CIM 10 at scale and enterprise-wide in a secure manner is critical.

► Data Lake (iData):

Its all about the data. Data contains invaluable information about your assets, how they are performing, and if they are at risk of failing in the future. If you listen to what the data is saying, you can avoid costly asset failures and downtime. With CIMCON Digital's intelligent iData platform, all your structured, semi structured or fully unstructured data is securely stored in iData's Data Lake. This data can be easily accessed by authorized developers, data scientists, and analysts for tasks such as reporting, visualization, advanced analytics, and machine learning.

► Ease of Configuration:

Multiple user interface options such as USB debug, and Bluetooth to connect to a smart device allow unlimited flexibility to users for device configuration, run time data capture on-site analysis.

► Security:

Secured Provisioning, Communication and Data Integrity is ensured by enhanced Cyber Security architecture both at IT and OT level.

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APPLICATION AREAS



► Gas Compressor and Dispenser Monitoring:

- Temperature and Pressure parameter monitoring of Gas station with Alarm generation.
- Compressor loading and suction pressure Remote control.

► Smart Building:

- Energy efficiency analysis and optimization opportunities.
- Access control and safety.
- Space utilization and parking management.



► Smart Water:

- Water Generation, Water Treatment Plants, Filtration Bed and Sewage Treatment Plant Operations.
- Water leak detection, Chlorine leak detection, Starter panel heat/smoke detection.
- Pump and Tube Well Motor preventive maintenance with help of useful data analytics and alarm generation i.e., detect Excessive Motor Vibration, Pump Dry Running, Locked Rotor condition etc. by monitoring various parameters (Voltage, Current, Power, Flow, Vibration and Temperature).

► Oil & Gas distribution network:

- Real time monitoring of critical parameters in Cathodic Protection application i.e., TR Current, TR Voltage, PSP.
- Time stamped with Geographical location information History Data log and Trend generator.



► Smart Manufacturing :

- Machine efficiency and power consumption analysis.
- Machine fault detection and diagnosis.
- Quality analytics.

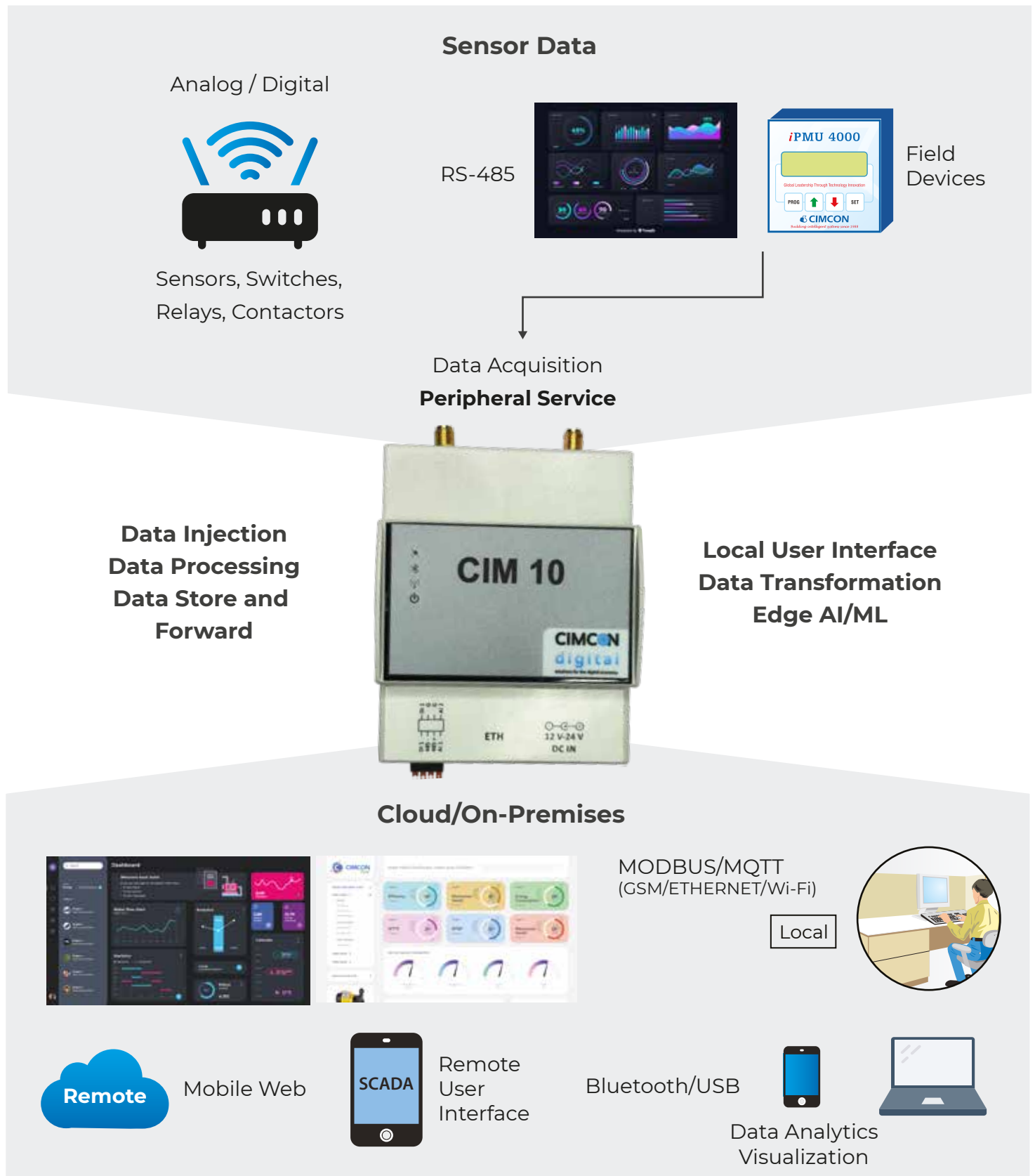
► Protocol Converter :

- With multiple wired and wireless connectivity options it can act as a Protocol Converter/Gateway to cater to any legacy application upgrade requirement in a plug-and-play manner.

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HOW IT WORKS



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EDGE MANAGER

Features

- ▶ Asset Inventory
- ▶ Device Inventory
- ▶ Customer Management
- ▶ User Management
- ▶ Telemetry Visualization
- ▶ User Defined Workflows
- ▶ Rules based Data Routing
- ▶ Device Health Monitoring
- ▶ Device Administration
- ▶ Device Fleet Dashboard
- ▶ Firmware Management
- ▶ Device Profile Management
- ▶ Sensor Library
- ▶ Alarm Management
- ▶ Notifications
- ▶ App White Labelling

Integrations

- ▶ External MQTT
- ▶ HTTP REST API
- ▶ Outbound HTTP Webhook
- ▶ OPC UA Adapter
- ▶ AWS IoT Core
- ▶ AWS Kinesis
- ▶ Azure Event Hub
- ▶ Azure IoT Hub
- ▶ IBM Watson

▶ Mesh Networking

- CIMCON Digital's CIM 10 comes with Bluetooth Low Energy (BLE) capabilities. One of the often-used BLE feature is the mesh networking capability. This allows intelligent applications in the edge device to manage a group of sensors, being able to apply a configuration to group of sensors in the mesh, and also to gather sensor states. Thus, the BLE mesh feature enables awareness of the sensor network with very optimized resource utilization.



Ready to use Micro Services Catalogue

- | | |
|-----------------------------|-----------------------------|
| • SDK – Python | • AWS IoT Core Connector |
| • SDK – C/C++ | • Azure IoT Connector |
| • PLC Flow execution engine | • Google IoT Core Connector |
| • FFT Analytics Service | • Things Worx Connector |

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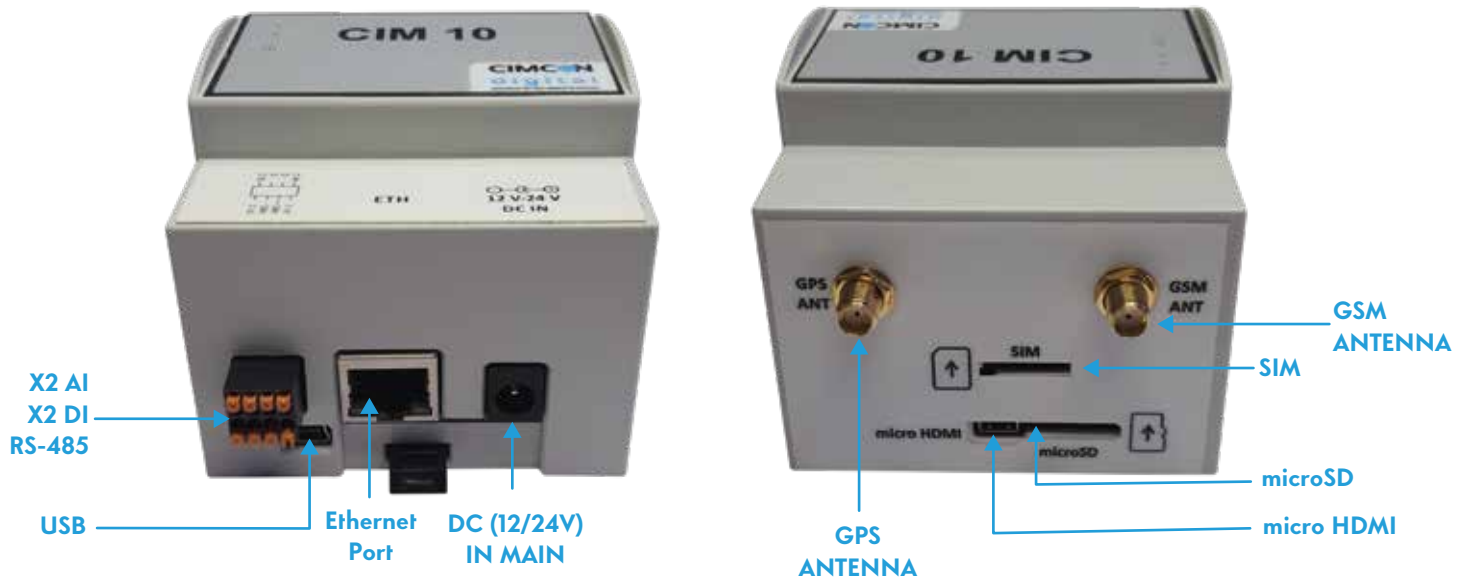
DEVICE TECHNICAL SPECIFICATIONS

• CORE	ARM Cortex-A8	Single core, 1GHz
	RAM	512 MB
	Flash	4 GB
	microSD card slot	x1, for additional data storage
	RTC with battery backup	Yes
• PERIPHERAL IO	Digital Input	x2, 12/24V DC operated
	Analog Input	x2, 12-bit resolution, 0-10V / 4-20mA input
	IO expansion	Yes, Modbus IO(External on RS-485)
• WIRED CONNECTIVITY	RS-485 port	x1
OPTIONS	Ethernet port	x1, 10/100 Mbps
	USB Device	x1 (Console)
• WIRELESS CONNECTIVITY	Cellular modem interface	2G/4G LTE-CAT1
OPTIONS	GPS (Optional)	GPS, GLONASS, BeiDou
	Wifi	-
	Bluetooth	x1 (BT5.0 protocol)
• POWER SUPPLY	DC operated	12~24V DC, 15W max
• ENCLOSURE	Plastic	ABS/PC
	Mounting	Plate mount (with additional clamp) or DIN rail
• OPERATING CONDITION	Temperature	-20°C to + 55°C
	Humidity*	20%-90% RH, non-condensing
	IP*	Ip20
		* Panel installation

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INTERFACE LAYOUT



MECHANICAL DIMENSIONS



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Specifications subject to change
without notice.

CIM 10 R2

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