iQunet.®

DATASHEET

New Generation Industrial 24V Powered iQunet Server

SKU: SERV199210-IND-24V1A

Category: Network Components

Description

New Generation Industrial 24V Powered iQunet Server (latest software version pre-installed)

The New Generation iQunet Server is a small size single board computer in a **DIN-rail housing** to which the Base Station is connected. It has a **standard Ethernet connection** and is Wi-Fi enabled. It is powered with **9 to 24VDC** and runs state of the art software (latest software version included).
The iQunet Data and Sensor Management Server runs an embedded webserver that provides direct or via internet access to the web based wireless **Sensor Dashboard** which monitors the sensor network and drives the dynamic sensor parameterization.
The iQunet Server has an embedded **OPC UA Server** inside as well, guaranteeing seamless data exchange with customers SCADA systems or OPC historians where the data can be backed up.
The iQunet Server also runs a **GraphQL Server** application that provides modern, easy to use, well documented APIs for seamless integration in customers software developments.
Data is logged on the iQunet Server but can be exported as a Google Sheet or a .CSV file with a single click command in the dashboard.
By running in the edge and not in the cloud, the iQunet Server operates reliably and securely even when being offline or having only intermittent connectivity.

Used in: required item for setup of the iQunet wireless network. The central computing and data storage device is running in combination with iQunet wireless sensors an asset monitoring network – stand alone or integrated in plant or office network.
Thanks to the use of the DIN rail housing and the 24V voltage supply, this iQunet Server can be installed in electric control cabinets.

Subject to reasonable modifications due to technical advances

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Technical specifications

- **Physical:**
    - **Dimensions (mm):** 58 x 107 x 95
    - **Weight:** 180g
    - **Case:** ABS
- **Installation:** on DIN rail (35mm)
- **IP degree (IEC 529):** IP20
- **Operating temperature:** 0°C to +50°C
- **Power supply:** 24VDC, 1.2A max
    - 9-24V wide-range DC input
    - Reverse polarity protection
    - Integrated EMC protection circuits (protection against voltage and current surges on the supply line)
- **Power consumption:**
    - <0.5A at 24VDC
    - <10W (at peak)
- **Ethernet connection:** up to 300Mbps
- **WiFi:** 2.4GHz and 5GHz IEEE 802.11.b/g/n/ac
- **USB connection for iQunet Base Station:** 1 connection
- **Software:** pre-installed (licenses included)
    - OPC UA Server
    - Webserver
    - GraphQL Server
    - iQunet Monitoring Software
- **Memory:** dynamic database autoscaling, 32GB
- **New Generation features:**
    - Faster booting process
    - New WebRTC connection procedure: easier to swap server networks
    - Support for 24V Wired Vibration Sensor
    - Option to connect via WiFi or WiFi hotspot
    - Option to connect Hamachi VPN networks in Sensor Dashboard
    - System Clock functionality for hardware clock synchronization
    - Storage Manager functionality for database analysis and dynamic database autoscaling
    - Data Explorer functionality for the export of .CSV files
    - Improved OPC UA functionality
    - Updated GraphQL APIs and documentation
- **Compliance:**
    - RoHS: 2011/65/EU and 2015/863
    - SAFETY: IEC 60950-1 / EN 62311
    - EMC: EN 301 489-1 / EN 301 489-17
    - SPECTRUM: EN 300 328 / EN 301 893

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