

## DATASHEET



### New Industrial Edge (IPC) iQunet Server

**SKU:** SERV199310-IPC-FR201

**Category:** Network Components



**NEW**



#### Description

#### New Industrial Edge (IPC-based) iQunet Server for condition monitoring (with pre-installed software)

The New Industrial Edge iQunet Server is fanless Industrial PC (IPC) with SSD storage, an operating temperature range of -20° to 60°C, a wide input power range, optional power over ethernet power delivery, and industrial components with long lifecycles.

The heart of the palm size iQunet Edge Server is a QuadCore ARM Cortex-A72 64-bit SoC. It is configured with 4 GB of RAM and an M.2 SATA SSD drive of 64Gb.

The 802.11ac Wi-Fi with external 161mm antenna provides a large wireless range for easy access to the internal hotspot of the device and for connecting to the available wireless LAN.

For connecting to the LAN, the iQunet server is equipped with 1GbE LAN with optional PoE PD Input (contact your local sales for more information)

The iQunet Server is standard powered with a 3-Pin Terminal Block Power Input (8~24V DC, 22W max) and is standard equipped with a DIN rail mounting set for back or edge mount.

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 the users' 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:

Used for Edge monitoring of a large number of wireless sensors and for near real time monitoring at high samples rates and large number of samples. Used where frequent (vibration and current) monitoring is required and large amounts of data needs to be stored and where increased service levels are required.

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### Technical specifications

- **IPC:**
  - QuadCore ARM Cortex-A72 64-bit SoC, 1.5Ghz
  - RTC
- **Power supply:**
  - 8~24V DC, 22W max
  - Optional PoE up to 802.3at at 25.5W (contact iQunet sales for more information)
  - Incl. power cycle button
- **Ethernet connection:** up to 1GbE
- **WiFi:**
  - 2.4GHz and 5GHz IEEE 802.11ac
  - External Dual Band Antenna 161mm (6.34")
- **USB connection for iQunet Base Station:** 1 USB-A connection
- **Software:** pre-installed (licenses included)
  - OPC-UA Server
  - Webserver
  - GraphQL Server
  - iQunet Sensor Monitoring Software
  - iQunet Analytics Software
  - VPN Hamachi & Wireguard
  - (optional) AI Anomaly Monitor
- **Memory:** dynamic database autoscaling, 64GB M.2 SATA SSD
- **New Server features:**
  - Ultra-fast booting process and operation
  - Fast SQL database read and write
  - New WebRTC connection procedure: easier to swap server networks
  - Option to connect via Ethernet, WiFi or WiFi hotspot
  - Option to connect Hamachi VPN or Wireguard 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 (spec. v1.05-2022)
  - iQunet-CloudLink ready
- **Compliance:**
  - CE / FCC / UKCA / VCCI / ISED ICES-003
  - SAFETY IEC/UL/EN 62368-1
  - EMC CISPR 32/35 Class A
  - FCC Part 15 Class A
  - IEC/EN 60601-1-2:2014 EMC Ready
  - Radio Equipment Directive (2014/53/EU)
  - RoHS 3 Directive (2015/863/EU)
  - REACH
  - WEEE Directive (2012/19/EU)

- **Physical:**
  - **Dimensions (mm) excl. external WiFi antenna:**  
102.5 x 129 x 38 mm  
(4.04 x 5.08 x 1.50 in)
  - **Weight:** 400g (incl. WiFi antenna)
  - **Case:** ABS / Aluminum
- **Installation:** on DIN rail (35mm)
- **IP degree (IEC 529):** IP20 (indoor only)
- **Operating temperature & humidity:**
  - -20°C to +60°C
  - 10%-95% humidity – noncondensing

