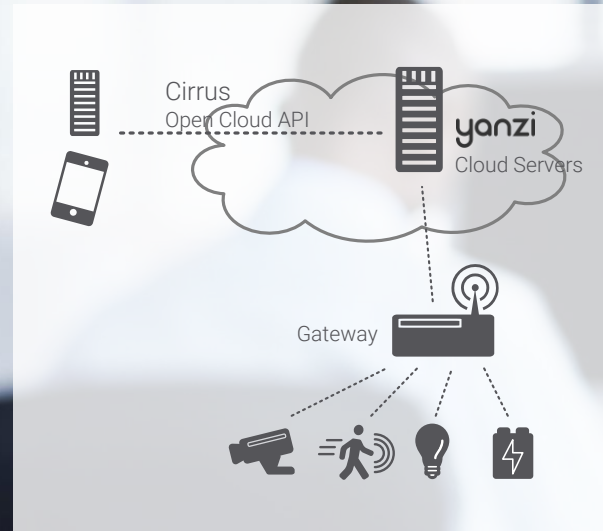# Yanzi Edge Gateway Plus

High performance IoT Edge Gateway with optional mobile broadband

The Yanzi Edge Gateway Plus is a high performance Internet of Things gateway for commercial facility and building installations. The solution deliver the performance required for larger installations whilst providing cost efficiency for smaller sites. Yanzi Edge Gateway Plus combined with Yanzi Access Points can support installations scaling to thousands of IP-based sensors and enables a very fast installation and roll-out of a secure all-IP sensor network in facilities, securely providing real-time data to cloud platforms, business intelligence and existing BMS/SCADA systems. The gateway delivers an all-IP connectivity including mobile broadband, Ethernet, WiFi, and IEEE 802.15.4.

Yanzi Edge Gateway Plus enables the communication between the Smart Building and the cloud and ensures autonomous operations even if Internet connection is down - including substantial local storage of video and sensor data. Thanks to the built-in battery back-up, the gateway can operate for hours during a potential power failure. Dual, low-power radios support high density sensor networks as well as long range sensor networks. The gateway is based on Dual-core Intel® Atom™ Processor E3805 based on the latest technology and is compatible with Enterprise grade Intel OS and software for management and security of end points.

Yanzi Edge Gateway Plus communicates periodically with all Yanzi Things to confirm their status and presence over a secure encrypted connection.

Highlights

● Simple to install

● Supports large amount of sensors

● Dual, low-power radios support high density IoT networks as well as long range IoT Networks

● Local access with WiFi when Internet connection is down

● Local storage for historical data

● Internal battery provides operation when AC power is lost

Getting started

Two steps and your Yanzi Edge Gateway Plus is connected

1. Start
   Plug in the included power adapter and connect the Ethernet cable to your existing Internet connection.

2. Connect
   Open the Yanzi App or Yanzi installation tool and register your Yanzi Edge Gateway Plus using the QR code on the back side.

You are now ready to use your Yanzi Edge Gateway Plus to connect with other products from the Yanzi family.

Ordering Information
DR2-8911   Yanzi Edge Gateway Plus

Specifications

High performance
● Dual-core Intel® Atom™ Processor E3805 based on the latest 22 nm technology running at 1.3GHz, 1MB of cache, and 2GB of RAM.
● Compatible with Enterprise grade Intel OS and Software for management and security of end points

Storage capacity
● Internal 32 GB SSD

Wireless high performance network
● IEEE 802.11b/g/n, 2.4GHz
● Dual omnidirectional internal antennas, 2T2R, 2.8dBi peak gain

Dual wireless low power networks
● IEEE 802.15.4, 2.4GHz IPv6 Sensor Network with Mesh technology
● IEEE 802.15.4g, 868MHz IPv6 Sensor Network with Mesh technology
● Omnidirectional internal antenna, 2.8dBi peak gain

Power and Battery
● External AC/DC power supply, 12V, 2A
● Internal 2000mAh Li-Ion UPS Battery

Environmental Requirements
● Operating Requirements +5°C to +30°C, 20 - 80% RH(non-condensing) Indoor only
● Storage Requirements 0°C to +50°C, 20 - 80% RH(non-condensing)

Cellular
● Support for two internal full size Mini PCI Express modules
● Compatible with Huawei ME909u-521 and Telit HE910 mobile broadband modules
● Dual internal SIM card slots

External Buttons and Connectors
● 2x RJ45 GbE
● UPS Battery ON/OFF Switch
● 12V Power Supply and UPS Charging
● USB 2.0 Connector
● Push-out plastic for two cellular SMA Antenna Connectors

Dimensions
● 144 x 140 x 39 mm

Developed in collaboration with (intel®)

For more information, instructions, safety information, warranty, and recycling information, please visit
www.yanzinetworks.com