UP

AI EDGE

bridge the gap

LoRa

IIoT indoor 4G-LoRa Edge Gateway and Network Server

Multi-radio indoor gateway with LoRa, 4G, WiFi and Bluetooth for industrial automation applications

3G 4G · Wi-Fi · Bluetooth · LoRaWAN

This is an industrial edge LoRAWAN gateway powered by Intel ATOM Apollo Lake CPU offering LPWAN and Long range connectivities.

LoRaWAN 8-channel radio, Bluetooth 4.2 (for short range data acquisition), WiFi (mid range) and 4G modem (for long back haul) provide a complete coverage for any kind of application.

This ready solution for your industrial automation projects is extremely flexible and powerful; it allows to run LoRaWAN Application and Network Server locally to setup on-premises private networks.

This Industrial IoT edge gateway is aimed to help the transition from legacy to connected automation with its ability of interfacing existing devices.

Specifications

CPU
Intel® Atom™ x7-E3950 quad core 2.0GHz

Storage and Memory
8GB LPDDR4
64 GB eMMC

Features
Dual band wireless IEEE
Bluetooth 4.2
1x DP + 1x HDMI
3x USB 3.0, 2x Gbit Ethernet
868MHz LoRaWAN radio, 8-channels, up to +20dBm
4G LTE cat.4 Quectel EC25 EMEA
Certified Radio Equipment Directive 2014/53/EU (RED)
Power input 5V DC-in +/- 5%

Supported Frameworks
ResIOT, The Things Industries, IoT in a box My Devices, Microsoft Azure

Ultra-low power design	The powerful but low power CPU keeps small the energy footprint of this edge gateway. Its extreme flexibility allows usage for multiple applications
Advanced Design for Industrial IoT on the edge	high end fully connected solution with a powerful platform that enables the gateway to run the LoRaWAN Network server on premises for industrial private networks
Fully programmable edge	The x86 nature of this gateway makes possible the implementation of any OS and development environment without being dependent by the hardware. Also compatible with multiple IIoT frameworks and vertical applications
A small-area footprint	Compact and easy installable gateway, it will fit any kind of installation environment and available space for retrofitting existing machineries,
Additional solutions	This edge gateway can fit AAEON AI Edge expansions powered by Intel Myriad 2 or Intel Myriad X VPU for adding machine learning capabilities.

Established in 1992, AAEON is one of the leading designers and manufacturers of advanced industrial and embedded computing platforms today. Committed to innovative engineering, AAEON provides integrated solutions, hardware and services for premier OEM/ODMs and system integrators worldwide.

With a continuous pursuit of innovation and excellence, AAEON became a member of the ASUS group in 2011, further strengthening its leadership fueled by advanced technology from ASUS and leveraging resources within the group. AAEON is posed to offer more diversified embedded products and solutions at higher quality standards to meet world-class design and manufacturing demands in the years to come.

For more information about AAEON, please visit:
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UP is a brand of AAEON Europe, an associate company of ASUS group, focused on Embedded, Internet Of Things, Industry 4.0. UP's mission is to spread the intelligence in the connected world around us. UP bridges the gap between the world of prototypes and the world of high-grade mass- produced embedded systems solutions. UP gives affordable and easily accessible and support of all the latest technologies to embeded industry.

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