MicroEdge Pro

IoT Edge Gateway • Single Pair Ethernet • i.MX9 Platform

- NXP i.MX9 64-bit ARM processor
- 2× Single Pair Ethernet (SPE) ports
- CAN-FD and isolated RS-485 interfaces
- PoE support PSE
- Wi-Fi / Bluetooth connectivity - optional
- Data gateway with OPC UA Client/Server, MQTT and JMobile protocols
- Secure remote access and data publication with Corvina Cloud
- Web HMI with JMobile runtime and CODESYS PLC support



Highlights

MicroEdge Pro is a high-performance Modular IoT Edge Gateway built for industrial automation and AI-driven applications.

Featuring a powerful NXP i.MX9 processor with integrated NPU, it delivers exceptional computing and inference capabilities at the edge. Housed in a robust metal enclosure, it offers 4 Ethernet ports, Wi-Fi, PoE, and 2 Single Pair Ethernet interfaces for advanced connectivity. Integrated digital I/O, dual USB-C, and RS-485/CAN ensure versatile device integration. Expand functionality with two M.2 slots for NVMe SSD storage and HAILO-8 AI acceleration, plus a standard BUS connector for MicroEdge expansion modules.

Run JMobile, CODESYS PLC, XPLC, and leverage Corvina Platform for remote management. Ideal as an IoT Gateway, smart Gateway, or Edge Controller with AI inference, MicroEdge Pro combines power, flexibility, and scalability for nextgeneration industrial solutions.

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Technical Data

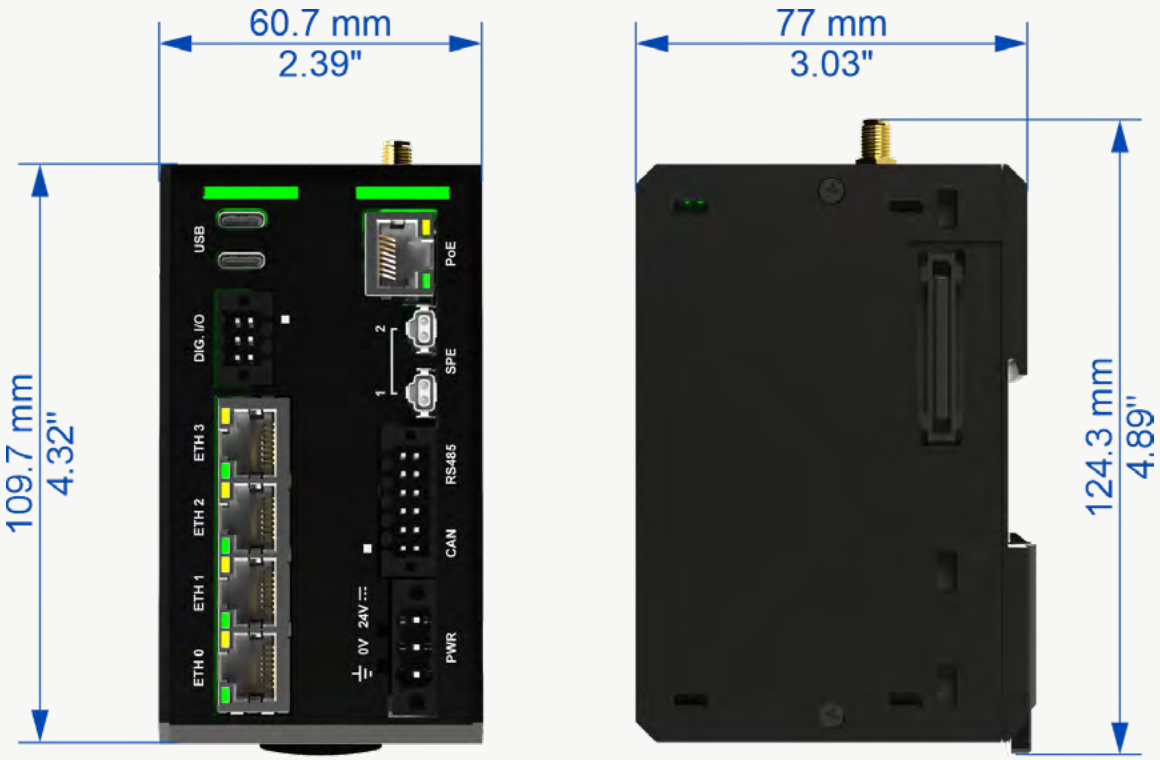
System Resources	
CPU	64-bit quad core ARM Cortex A55 - 1.7 GHz
NPU	Yes
Operating System	Linux Yocto with Real Time
Flash	20 GB (pSLC mode)
RAM	8 GB
FRAM	64 KB
Real Time Clock, RTC Back-up	Yes, Supercapacitor
Interface	
Ethernet port	4x Giga Ethernet Port with separate MAC and ETH Switch function (10/100/1000 Mb)
Ethernet PoE port	1x 10/100 Mb - Max. power 15W
USB port	1x 2.0 OTG (500mA max., Type C) - 1x 3.0 (500mA max., Type C)
SPE (Single Pair Ethernet)	2x S.P.E. IEEE 802.3 13W
Wi-Fi Antenna	50Ω, RP-SMA Female connectors
Serial port	1x (RS-485, isolated)
CAN/CAN-FD port	1x (isolated)
WiFi BT	IEEE Dual Band 802.11a/b/g/n/ac (optional)
Bluetooth	5.0 (optional)
I/O	2x DI / 2x DO 24 Vdc
SSD/NPU Expansion	1x M.2 B/M Key 2242 (SSD) + 1x M.2 E Key 2230
Expansion port	Yes (Standard MicroEdge bus expansion)
Indicator Light	2x RGB
Ratings	
Power supply	24 Vdc (18 to 30 Vdc)
Current Consumption	TBC
Input Protection	Electronic Fuse
Environment Conditions	
Operating Temperature	-30°C to +60°C
Storage Temperature	-30°C to +70°C
Operating / Storage Humidity	5-90% RH, non-condensing
Protection Class	IP20
Dimensions and Weight	
Height	109.7 + 14.6 mm (4.32" + 0.57")
Width	60.7 mm (2.39")
Depth	77 mm (3.03")
Weight	TBC

Approval

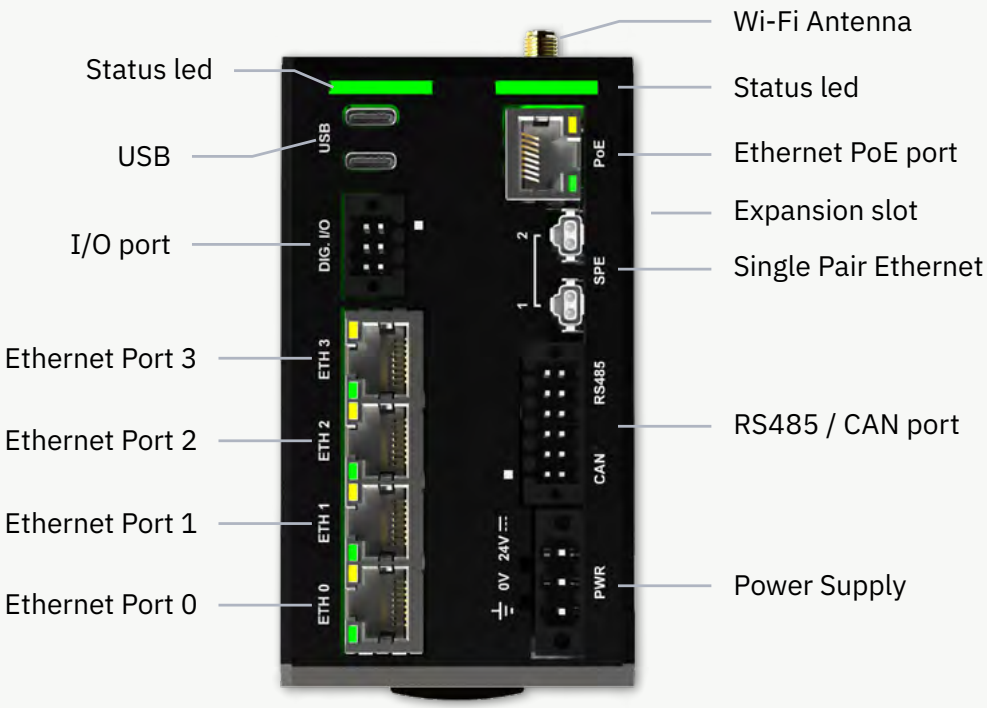
Certification	
CE	Electromagnetic Compatibility Directive 2014/30/EU (EMC)
UL	cULus: UL61010-1 / UL61010-2-201
FCC/IC	FCC Part 15 Subpart B Class A CES-003 issue 7 Class A
RCM	Yes

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Dimensions



Connections



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Connectors

Connector	Replacement	Part Number
Power Supply	Weidmüller	1944340000
RS485/CAN	Weidmüller	1277900000
Inputs / Outputs	Weidmüller	1277860000
Single Pair Ethernet	TBC	TBC

Ordering Information

HW Model	Part Number	Description
MicroEdge Pro	TBC	MicroEdge Pro - Modular IoT Edge Gateway

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