

MicroEdge Plus Tech-Note

Modular IoT Edge Gateway, 64-bit CPU, 2 Ethernet Ports, CAN Port

- Data gateway including OPC UA Client/Server, MQTT and JMobile communication protocols
- Secure routing and efficient data publication with Corvina
- Web HMI with JMobile runtime
- Supports CODESYS PLC and network stacks
- Linux/Yocto open platform
- High-performance 64 bit processor
- 2 Ethernet ports
- CAN port (CAN-FD ready)
- Plug-in modules for system expansion
- Wide operating temperature range



Highlights

MicroEdge IoT Plus is compact and lightweight device designed as an Edge Controller – IoT Gateway. It is a simple device for building efficient and data-intensive cloud edge solutions for IoT.

MicroEdge IoT Plus is based on a platform with a powerful 64 bit processor offering plenty of power for edge calculations. Integrated optional control with CODESYS PLC and network stacks for I/O expansion further extend its use as edge controller for applications in demanding industrial environments.

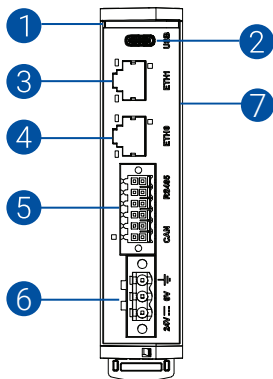
The vast library of JMobile communication protocols, covering most of the major industrial controller manufacturers, make this device ideal when dealing with existing installations based on legacy equipment. The product is designed for security to safeguard critical industrial data and infrastructure. System property settings can be managed in a straightforward way by means of a web browser.

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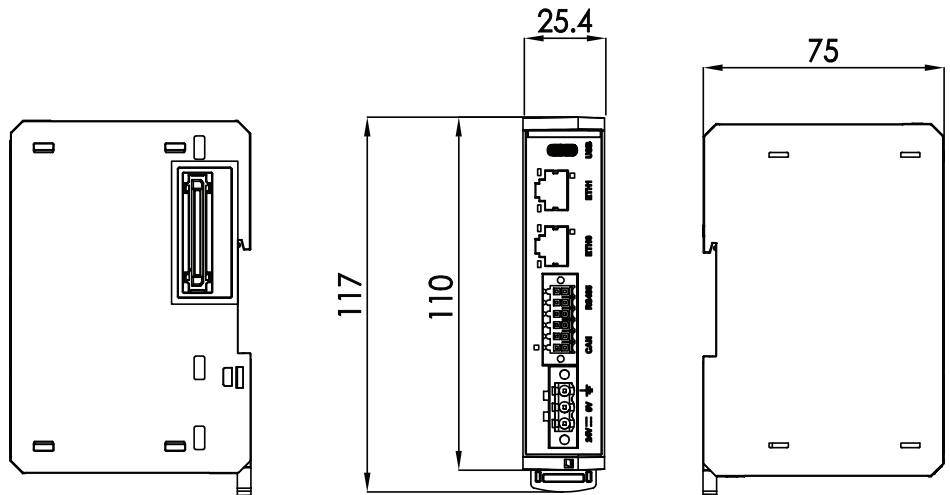


System Resources	
CPU	64-bit RISC quad core - 1.6 GHz
Operating System	Linux Yocto
Flash	4 GB (pSLC mode - High reliability)
RAM	2 GB
FRAM	64 KB
Real Time Clock	Yes
RTC Back-up	Supercapacitor
Interface	
Ethernet port	2 (port 0 - 10/100, port 1 - 10/100)
USB port	1 (2.0 OTG, 500mA max., Type C)
Serial port	1 (RS-485, isolated)
CAN/CAN-FD port	1 (isolated)
Expansion port	Yes
Buzzer	Yes
Indicator Light	1 (RGB LED)
Ratings	
Power supply	24 Vdc (9 to 32 Vdc)
Current Consumption	0.28 A at 24 Vdc typ. without expansions modules, Class 2 1.56 A at 24 Vdc max. with expansion modules (full load), Class 2
Input Protection	Electronic Fuse
Environment Conditions	
Operating Temperature	-20°C to +55°C
Storage Temperature	-30°C to +70°C
Operating / Storage Humidity	5-90% RH, non-condensing
Protection Class	IP20
Dimensions and Weight	
Height (H)	110 + 7 mm (4.33" + 0.28")
Width (W)	25.4 mm (1")
Depth (D)	75 mm (2.95")
Weight	0.180 Kg
Approvals	
CE	Electromagnetic Compatibility Directive 2014/30/EU (EMC)
FCC	FCC Part 15 Subpart B Class A
IC	ICES-003 ISSUE 7 CLASS A
UL*	cULus: UL61010-1 / UL61010-2-201
RCM	Yes

* Planned



1. LED Indicator - Device status
2. USB - Type C Port
3. Ethernet port 1 (10/100 Mb)
4. Ethernet port 0 (10/100 Mb)
5. CAN RS485
6. Power supply
7. Expansion slots for plug-in modules



Ordering Information

HW Model	SW Configuration	Part Number	Description
MicroEdge Plus	JMX	102006800U-0000	MicroEdge Plus JMX - Modular Edge Gateway + JMobile Runtime License
	IOT	Contact Your Local Sales	MicroEdge Plus IOT - Modular Edge Gateway + JMobile Runtime License + Corvina VPN LifeTime Activation Key