

MicroEdge Basic Tech-Note

Modular IoT Edge Gateway, 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
- Linux/Yocto open platform
- 2 Ethernet ports
- CAN port (CAN-FD ready)
- System expansion with optional modules
- Wide operating temperature range



Highlights

MicroEdge Basic 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.

Through use as a gateway, a powerful HMI, the MicroEdge Basic facilitates data intensive and complex IIoT applications to be enabled.

The MicroEdge Basic (XME-00) stands as a streamlined, featherlight solution crafted as an Edge Controller and IoT Gateway. This unassuming yet powerful device paves the way for the creation of robust, data-centric cloud edge solutions tailored for the IoT landscape.

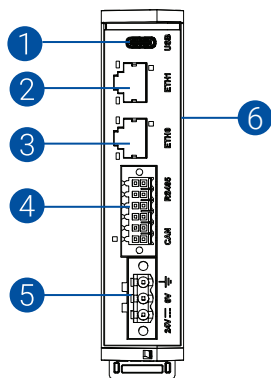
Boasting an extensive suite of JMobile communication protocols that encompass the majority of leading industrial controller brands, this device seamlessly integrates into environments dominated by legacy systems.

Engineered with a focus on security, the MicroEdge Basic is dedicated to the protection of vital industrial data and infrastructure. Its system settings are effortlessly manageable through a web interface, simplifying the safeguarding process. This ensures that critical information remains secure, bolstering the integrity of industrial operations.

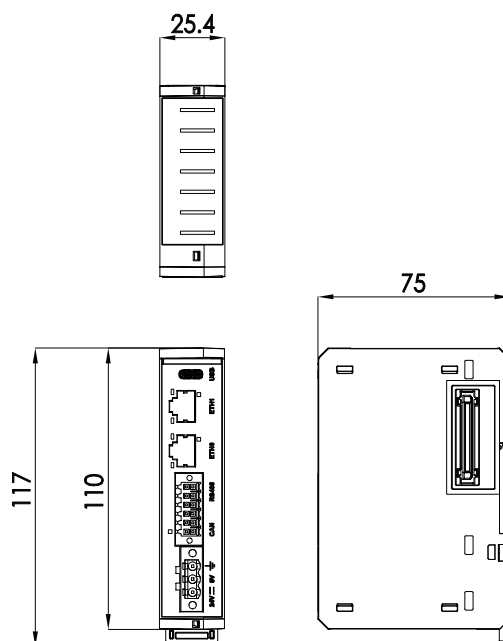
MicroEdge Basic - Technical Data



System Resources	
CPU	32-bit RISC Single Core - 528 MHz
Operating System	Linux Yocto
Flash	4 GB
RAM	512MB
FRAM	64KB
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	0.23 A at 24 Vdc typ. without expansion modules, Class 2 1.56 A at 24 Vdc max. with expansion modules (full load), Class 2
Input Protection	Electronic
Environment Conditions	
Operating Temperature	-20°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 (H)	110 + 7 mm (4.33" + 0.28")
Width (W)	25.4 mm (1")
Depth (D)	75 mm (2.95")
Weight	0.140 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



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



Ordering Information

HW Model	SW Configuration	Part Number	Description
MicroEdge Basic XME-00	VPN	Contact Your Local Sales	MicroEdge Basic VPN - Modular Edge Gateway + Corvina VPN LifeTime Activation Key
	JMX	102006700U-0000	MicroEdge Basic JMX - Modular Edge Gateway + JMobile Runtime License
	IOT	Contact Your Local Sales	MicroEdge Basic IOT - Modular Edge Gateway + JMobile Runtime License + Corvina VPN LifeTime Activation Key