

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
- Supports CODESYS PLC and network stacks
- Linux/Yocto open platform
- 2 Ethernet ports
- CAN port (CAN-FD ready)
- System expansion with optional modules
- Wide operating temperature range



Highlights

MicroEdge Basic XME-00 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. 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.

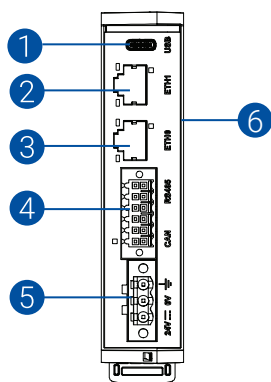
The vast library of JMobile communication protocols, covering most of the major industrial controller manufacturers, make this device ideal when dealing with existing installations based on legacy equipment.

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.

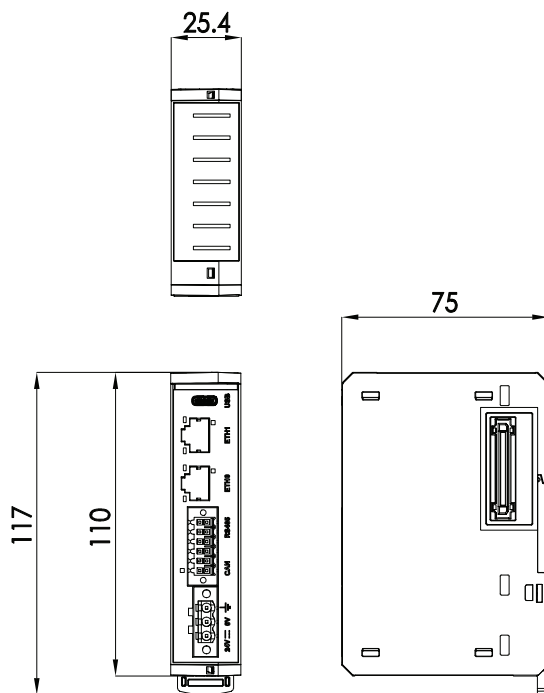
MicroEdge Basic Technical Data



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	1.56 A at 24 Vdc (max.)
Input Protection	Electronic
Environment Conditions	
Operating Temp	-20° to +60 °C
Storage Temp	-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/IC	FCC Part 15 SubpartB Class A ICES-003 issue7 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

Model	Part Number	Description
XME-00	102006700U-0000	MicroEdge Basic - Modular IoT Edge Gateway