

eXware707M Tech-Note

High performance IoT Edge Gateway/ Controller, 8 GB Flash, 3x Ethernet

- JMobile runtime with HTML5 HMI
- JMobile data gateway functions including OPC UA server/client, MQTT and all available JMobile communication protocols
- Secure routing with Corvina Cloud
- Supports CODESYS PLC and network stacks
- Quad core 64 bit CPU
- 3 Ethernet ports for network separation WAN/LAN
- Wide operating temperature range
- Rugged all metal design



Highlights

eXware707M is a powerful and rugged device designed as an IoT Edge controller. The product easily integrates JMobile HMI with HTML5 interface and powerful gateway functions, IEC 61131 PLC with networked I/O, Corvina Cloud secure connections. Powered by a quad core 64 bit CPU, it is the ideal device for building data-intensive cloud edge solutions for IoT.

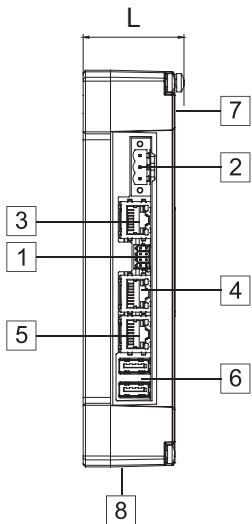
With the combination of JMobile HMI, Corvina Cloud and CODESYS PLC, eXware offers companies the chance to start at an uncomplicated level in IoT Edge and yet allows enormous future expansion into more complex aspects of Industry 4.0.

Speaking across the vast library of JMobile communication protocols as well as OPC UA to higher enterprise level control, the eXware is a true Plug and Use product.

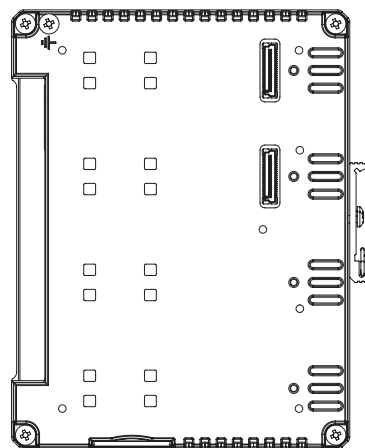
- Compatible with existing installations including legacy equipment
- Communication security based on HTTPS and TLS
- Straightforward wireless connectivity using the optional PLCM10 and PLCM10B plug-in modems
- Plug-in modules for system expansion
- System settings using web browser
- Ready for OPC UA pub/sub over TSN
- Ready for Corvina Cloud
- Compatible with CODESYS. Supports network stacks (EtherCAT, PROFINET, EtherNet/IP, POWERLINK) and offers local I/O expandability
- Can be used as a Linux-based open platform



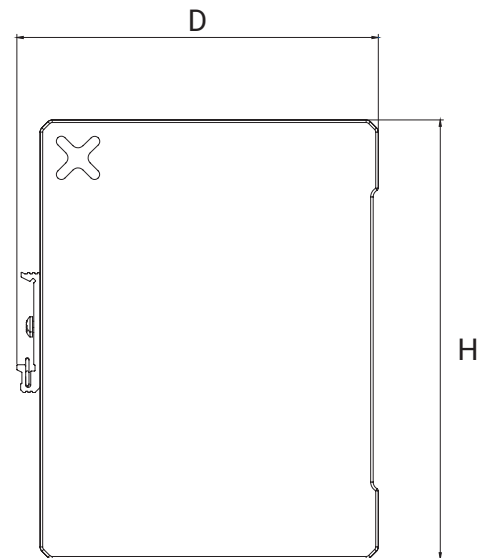
System Resources	
CPU	64-bit RISC quad core - 1.6 GHz
Operating System	Linux RT
Flash	8 GB
RAM	2 GB
FRAM	64 KB
RTC,RTC Back-up, Buzzer	Yes
Interface	
Ethernet port	3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100)
USB port	2 (Host v. 2.0, max. 500 mA)
Serial port	1 (RS-232, RS-485, RS-422, software configurable) Max 3 serial ports using plug-in modules.
SD card	Yes
Expansion	2 slots for plug-in modules
Ratings	
Power supply	24 Vdc (10 to 32 Vdc)
Current Consumption	0.5 A max. at 24 Vdc
Input Protection	Electronic
Battery	Yes
Environment Conditions	
Operating Temperature	-20°C to +60°C - Plug-in modules and USB devices may limit max temperature to +50 °C.
Storage Temperature	-20°C to +70°C
Operating / Storage Humidity	5 - 85% RH, non condensing
Protection Class	IP20
Dimensions and Weights	
Faceplate LxH	44 x 174 mm
Depth D	144 mm
Weight	0.7 Kg
Mounting	DIN Rail (TS35)
Approvals	
CE	Electromagnetic Compatibility Directive 2014/30/EU (EMC)
ATEX	Zone 2: II 3 G Ex ec IIC T5...T4 Gc -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°C
IECEX	Zone 2: Ex ec IIC T5...T4 Gc -20°C ≤ Tamb ≤ +60°C or 0°C ≤ Tamb ≤ +50°C
UL	cULus: UL61010-1 / UL61010-2-201
UL	cULus: Class 1 Div 2
RCM	Yes



- 1 Serial port
- 2 Power supply
- 3 Ethernet port 0 (10/100/1000 Mb)



- 4 Ethernet port 1 (10/100 Mb)
- 5 Ethernet port 2 (10/100 Mb)
- 6 USB ports 1 and 2



- 7 Expansion slots for plug-in modules
- 8 SD Card slot

Ordering Information

Model	Part Number	Description
eXware707M	+EXW707MU0P1	High performance IoT Edge controller/gateway, quad core 64 bit CPU