

eXware707M Tech-Note

High performance IoT Edge Gateway/Controller, 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
- Supports CODESYS PLC and network stacks
- Quad core 64 bit CPU
- pSLC mode for higher reliability
- 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 secure connections. Powered by a quad core 64 bit CPU, it is the ideal device for building data-intensive cloud edge solutions for IoT.

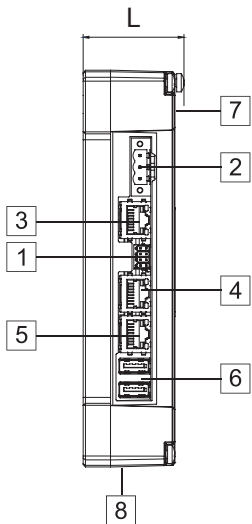
Thanks to the combination of a soft PLC for control, JMobile for HMI and data interface between machines and systems, and the Corvina platform for data collection and advanced services, eXware helps companies easily begin their journey into IoT at the Edge. At the same time, it offers the flexibility to grow step-by-step into more advanced Industry 4.0 solutions, supported by built-in cybersecurity features and robust, reliable hardware designed for industrial environments.

- Compatible with existing installations including legacy equipment
- Built-in security features with JMobile and Linux BSP
- Straightforward wireless connectivity using the optional PLCM10 and PLCM10B plug-in modems
- Plug-in modules for system expansion, such as CAN and Profibus interfaces, additional serial ports, connectivity modules and local I/O
- System settings using web browser
- Fully compatible with Corvina platform
- Compatible with CODESYS and XPLC softPLC with remote I/O support (Modbus, EtherCAT, EtherNet/IP, Profinet) with local I/O module as option
- Can be used as a Linux-based open platform

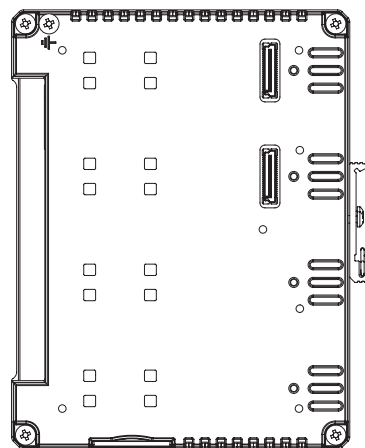
eXware707M - Technical Data



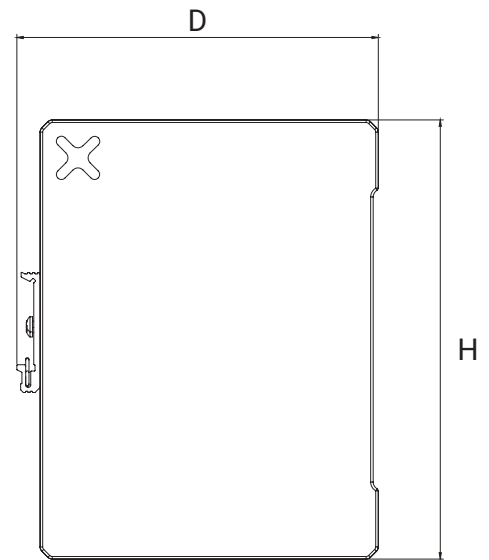
System Resources	
CPU	64-bit RISC quad core - 1.6 GHz
Operating System	Linux RT
Flash	4 GB (eMMC pSLC)
RAM	2 GB
FRAM	64 KB
RTC,RTC Back-up, Buzzer	Yes
Interface	
Ethernet port	3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100)
USB port	2 (Host v. 2.0, max. 500 mA)
Serial port	1 (RS-232, RS-485, 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
DNV	Yes
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