eXware 703 Tech-Note

eXware is rugged and compact controller designed as a powerful IIoT Gateway. The product can integrate JMobile HMI with HTML interface and powerful gateway functions, IEC 61131 PLC with I/O expandability, Corvina Cloud secure remote connection. It is a powerful HMI without direct visualization. It is the ideal device to start building cloud edge solutions.
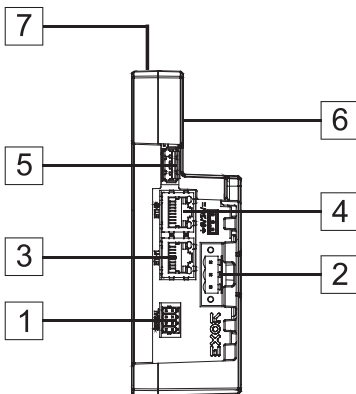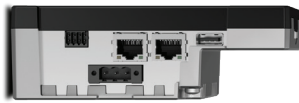
- Compatible with JMobile runtime. Supports JMobile protocols and gateway functions. JM4web HTML5 interface for web HMI.
- OPC UA server and client
- Compatible with CODESYS PLC V3 and network stacks.
- Compatible with Corvina Cloud secure remote connectivity.
- Plug-in module for system expansion.
- 2 Ethernet ports for network separation.
- Rugged all metal design.
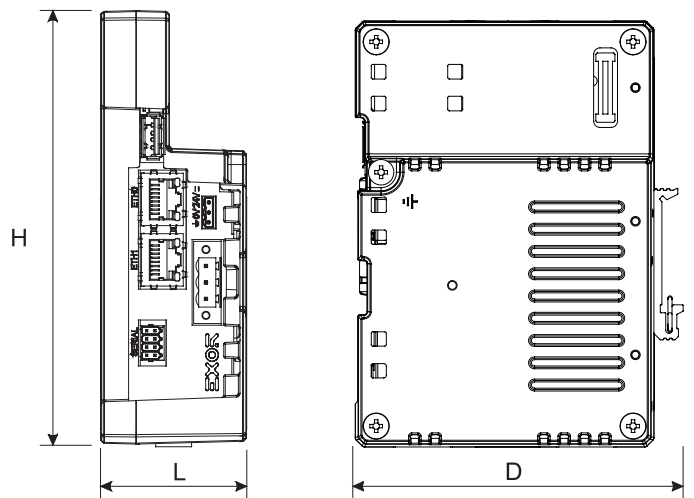- Wide operating temperature range.

Highlights

With the combination of JMobile HMI, CODESYS PLC and Corvina Cloud security, eXware offers companies the chance to start at an uncomplicated level in IoT and yet allows enormous future expansion into more complex aspects of Industry 4.0. Speaking across the vast library of JMobile protocols as well as OPC UA to higher enterprise level control, the eXware is a true Plug and Use product. Straightforward wireless connectivity using the optional PLCM09 2G/3G modem.

- Compatible with Existing Installations
- Compatible with JMobile. Includes JM4web HTML5 access.
- Supports JMobile protocols including OPC UA server and client.
- Compatible with CODESYS V3. Supports network stacks and local I/O expandability
- Compatible with Corvina Cloud secure remote connectivity.
- Compatible with PLCM09 2G/3G modem.
- 2 Ethernet ports for network separation WAN/LAN.
- System settings by web browser.
- Linux-based open platform.

Technical Data

Functions	
Role/Application	Gateway, HMI, PLC, secure router - all data intensive IIoT applications
OT Networks	All Major Protocols: PROFINET, EtherNet/IP, EtherCAT, POWERLINK, Modbus, DNP3, BACnet, etc
Data Commmunication	OPC UA standard (pub/sub over TSN*)
Cloud Connectivity	Node-RED*, Bluemix*, Azure*, AWS*, Docker*
Operating System	Linux
Security	HTTPS, TLS

System Resources	
CPU	ARM Cortex-A8 1 GHz
Operating System	Linux RT
Flash	4 GB
RAM	512 MB
Real Time Clock, RTC Back-up, Buzzer	Yes

Interface	
Ethernet port	2 (port 0 - 10/100, port 1 - 10/100)
USB port	1 (Host v. 2.0, max. 500 mA)
Serial port	1 (RS-232, RS-485, RS-422, software configurable) Max 2 serial ports using plug-in modules.
SD card	Yes
Expansion	1 slot for plug-in modules

Ratings	
Power supply	24 Vdc (10 to 32 Vdc)
Current Consumption	0.35 A max. at 24 Vdc
Input Protection	Electronic
Battery	Yes

Environment Conditions	
Operating Temp	-20°C to +60°C Plug-in modules and USB devices may limit max temperature to +50 °C.
Storage Temp	-20°C to +70°C
Operating / Storage Humidity	5 - 85% RH, non condensing
Protection Class	IP20

Dimensions and Weights	
Faceplate LxH	45x134 mm (1.77x5.27")
Depth D	102 mm (4.01")
Weight	0.6 Kg
Mounting	TS35 DIN Rail

Approvals	
CE	Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments Emission EN 61000-6-3, Immunity EN 61000-6-1 for installation in residential environments, EN 60945, EMC Emissions and Immunity for marine applications
UL	cULus: UL61010-1 / UL61010-2-201
UL	cULus: Class 1 Div 2
IECEx	Zone 2: Ex nA IIC T5 Gc
ATEX	Zone 2: II 3 G Ex nA IIC T5 Gc
RCM	Yes

*Road map for 2018

1 Serial port
2 Power supply
3 Ethernet port 1 (10/100 Mb)
4 Ethernet port 0 (10/100 Mb)
5 USB port 1
6 Expansion slots for plug-in modules
7 SD Card slot

Ordering Information

Model	Part Number	Description
eXware 703	+EXW703U0P1	IoT controller and Gateway, 2 Ethernet ports, 1 serial port, 1 USB port