

eXware707T Tech-Note Preliminary

Rugged and compact IIoT edge controller and gateway. Includes a 3-way Ethernet switch with TSN compatibility.



Powerful dual-core ARM Cortex-A9 powered by Intel Cyclone V FPGA. Ideal for computation-intensive cloud edge applications where OPC UA over TSN is a requirement.

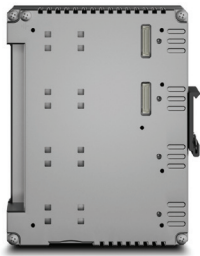
The product can integrate JMobile HMI with its HTML interface and powerful gateway functions, IEC 61131 PLC with networked I/O, Corvina Cloud secure remote connection.

Highlights

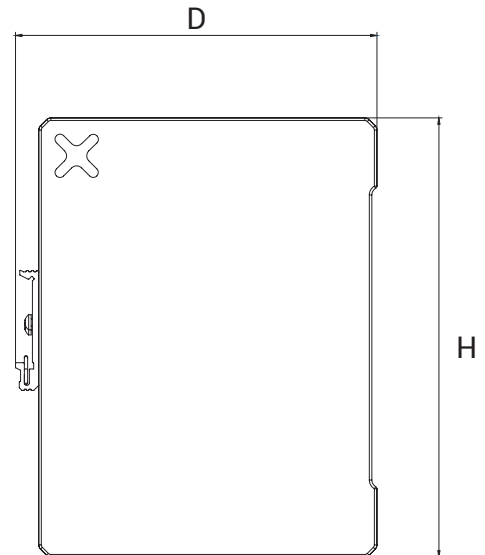
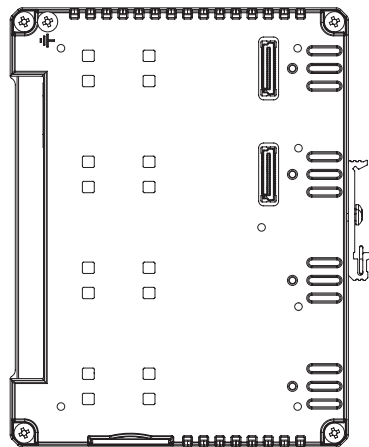
eXware707T is a rugged and compact device designed as a powerful IoT Controller and Gateway. It provides step in functionality compared to the eXware707 and eX707Q thanks to the 4 Ethernet ports with a TSN switch and to the powerful ARM Cortex-A9 CPU based on Intel Cyclone V FPGS. The product can integrate JMobile HMI with its HTML interface and powerful gateway functions, IEC 61131 PLC with networked I/O, Corvina Cloud secure remote connection. It is the ideal device for building data-intensive cloud edge solutions for IoT based on OPC UA with TSN. With the combination of JMobile HMI, Corvina Cloud security and CODESYS PLC, 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.

- Compatible with existing installations including legacy equipment
- Compatible with CODESYS V3. Supports network stacks (EtherCAT, PROFINET, EtherNet/IP, POWERLINK) and offers local I/O expandability
- Communication security based on HTTPS and TLS
- Straightforward wireless connectivity using the optional PLCM09 plug-in modem
- Plug-in modules for system expansion
- System settings by web browser
- Can be used as a Linux-based open platform
- Ready for OPC UA pub/sub over TSN
- Ready for Corvina Cloud 2.0

eXware707T - Technical Data



System Resources	
CPU	ARM Cortex-A9 dual core - 925 MHz
Operating System	Linux RT
Flash	4 GB
RAM	1 GB
FRAM	64 KB
EEPROM	4 KB
Real Time Clock, RTC Back-up	Yes
Interface	
Ethernet port	4 10/100/1000
USB port	2 Host V2.0, 150mA max.
Expansion	2 slots for plug-in modules
SD Card	Yes
Video Output	Yes, via ADDON-DVI module
Ratings	
Power Supply	24Vdc (10-32V range)
Current Consumption	TBC
Input Protection	Electronic
Battery	Yes (rechargeable)
Environment Conditions	
Operating Temp	-20° to +60° C (vertical installation)
Storage Temp	-20°C to +70°C
Operating / Storage Humidity	5-85% RH, non-condensing
Protection Class	IP20
Dimensions and Weights	
Faceplate LxH	40x174 mm
Depth D	144 mm
Weight	0.7 Kg
Approvals	
CE	TBC
UL	TBC



Ordering Information

Model	Part Number	Description
eXware707T	tbd	High performance IoT controller and gateway, quad core CPU