

Main Features

- Onboard Intel® Atom™ x5-E3930 processor Dual Core 1.8GHz
- 1 x HDMI display
- 2 x Intel® I210IT GbE LAN ports; support WoL, teaming and PXE
- 4 x USB 3.0
- 2 x mini-PCIe sockets for optional Wi-Fi/3.5G LTE modules
- 2 x RS232/422/485 with auto flow control
- 1 x External SD card slot and 1 x SIM card socket
- Support -5°C~55°C operating temperature
- Support +24VDC input



Product Overview

EXOR's eXserver product line comes in a range of form factors and processor configurations including Intel Atom and Intel Core processors to suit different application requirements. For eXserver 105W, it positions itself at the entry level of fieldbus controller, and suitable for M2M communication gateway and data server applications. Boosted by Intel® latest Apollo Lake-I processors and the palm size form-factor, eXserver 105W is the most suitable entry level automation system which satisfying the needs of steady system performance and installation in gateway field or a small controller cabinet.

eXserver 105W meets PLCopen® specifications and allows easy control programming via Softlogic tool kit. Using libraries of reusable logic and motion functionality, control schemes can be developed with reduced programming efforts for fast deployment of SoftPLC controller and M2M gateway.

Specifications

CPU Support

- Onboard Intel® Atom™ x5-E3930 processor Dual Core 1.8 GHz

Main Memory

- Onboard type 4 GB DDR3L RAM - Un-buffered and non-ECC

Display Output

- 1 x HDMI display

I/O Interface-Front

- 2 x Intel® I210IT GbE LAN ports; support WoL, teaming and PXE
- 4 x USB 3.0 (900mA)
- 1 x External SD card slot (data storage only)
- 1 x FBI expansion slot
- 1 x Power/1x HDD access LEDs
- 1 x Battery low/1x GP0 programming LED
- 2 x Tx/Rx LEDs
- 1 x ATX power on/off switch

I/O Interface-Top

- 1 x Remote switch/1 x S3
- 1 x SIM card slot
- 1 x RTC battery socket

I/O Interface-Bottom

- 2 x DB9, support RS232/422/485 with Auto Flow Control
- 1 x Optional DB9, support 4 x GPI and 4 x GPO

Storage Device

- Onboard 16 GB eMMC
- Optional mSATA module

Power Requirement

- Power input: typical +24 V DC ±20%
- 1 x Optional 24 V, 60 W power adapter

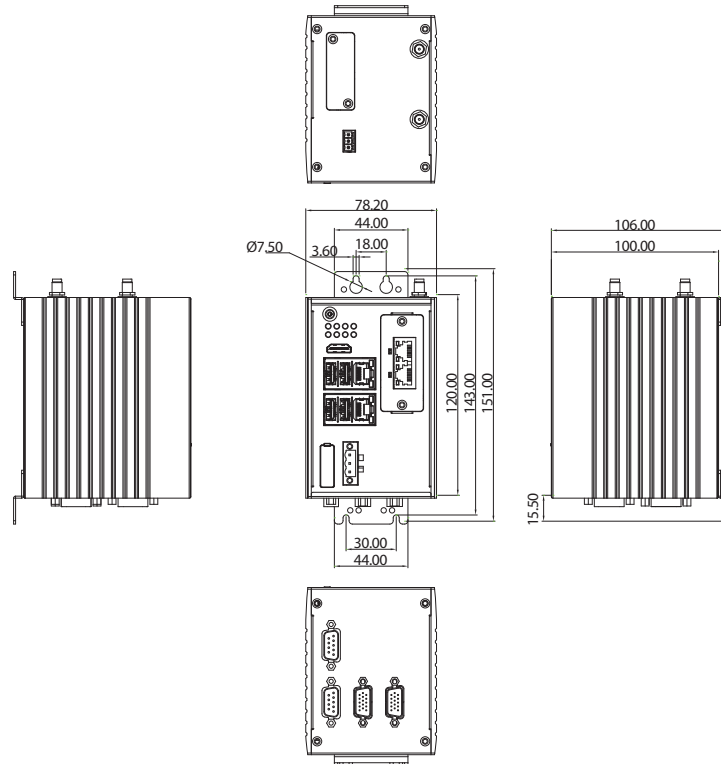
Dimensions

- 78.2 mm (W) x 100 mm (D) x 120 mm (H)

Construction

- Aluminum and Metal Chassis with front access design

Dimension Drawing



Environment

- Operating temperature:
Ambient with air flow: -5°C to 55°C
(according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C to 75°C
- Relative humidity: 10 % to 93 % (non-condensing)
- Shock protection:
 - mSATA/eMMC: 50 G, half sine, 11 ms, IEC60068-27
- Vibration protection w/ mSATA or eMMC condition:
 - Random: 2 Grms @ 5~500 Hz, IEC60068-2-64
 - Sinusoidal: 2 Grms @ 5~500 Hz, IEC60068-2-6

Certification

- CE approval
 - EN61000-6-2
 - EN61000-6-4
- FCC Class A
- CentOS 7

Support OS

- Microsoft Windows 10 Enterprise 64-bit