

TOX® UDI Module

Data sheet 100.50

2025 / 09



TOX® UDI Module

Field of application

The TOX® UDI Module is a fanless industrial PC for industrial control cabinet mounting and is mainly used in Generation 5 TOX® systems (e.g., Multi Technology Platform, ED Core, PMO Core, etc.). TOX® Software runs on TOX® UDI Module so that quality data is recorded in the background and can also be exported.

If direct access is desired, connection can be established either via Webvisu or a TOX® UDI Panel (see data sheet 100.40). TOX® UDI Module is based on the Intel® Pentium™ platform. It impresses with its compact design and is ideally suited for installation in the switch cabinet.

TOX® UDI Module is the switch cabinet version of TOX® UDI Panel.

Properties

- Fanless device
- Compact construction
- Optimized heat dissipation
- Reliable and robust
- TOX® operating system: hardened Linux®
- No UPS required due to secure file system

Technical data

Voltage	Min.	12 V DC
	Type	24 V DC
	Max.	34 V DC
Power consumption (during operation)	Min.	-
	Type	20 W
	Max.	30 W
Operating temperature range		+0 °C - +40 °C
Protection class (switch cabinet installation)		IP20
Weight		1.2 kg
Fixture / mounting		Retaining plate for mounting in the switch cabinet
Processor		Intel® Pentium™ N4200 (up to 2.5 Ghz), 4 cores
Working storage		LPDDR4 / 4 GByte
Hard disc	Type	SSD - mSATA
	Capacity	240 GByte
eMMC		32 GByte
Real Time Clock (RTC) battery		CR2032
Connections		USB 3.0, HDMI, Ethernet, display port
Cooling		Without fan
Operating system		TOX®- OperatingSystem: hardened Linux®-System
TOX®softWare Version 3.x		Included in the scope of delivery
Possible use		1 TOX® technology system Gen 5.0*

* As an example, the specifications refer to a 2-channel process monitoring with a cycle time of 2 seconds and a network quality according to the state of the art.

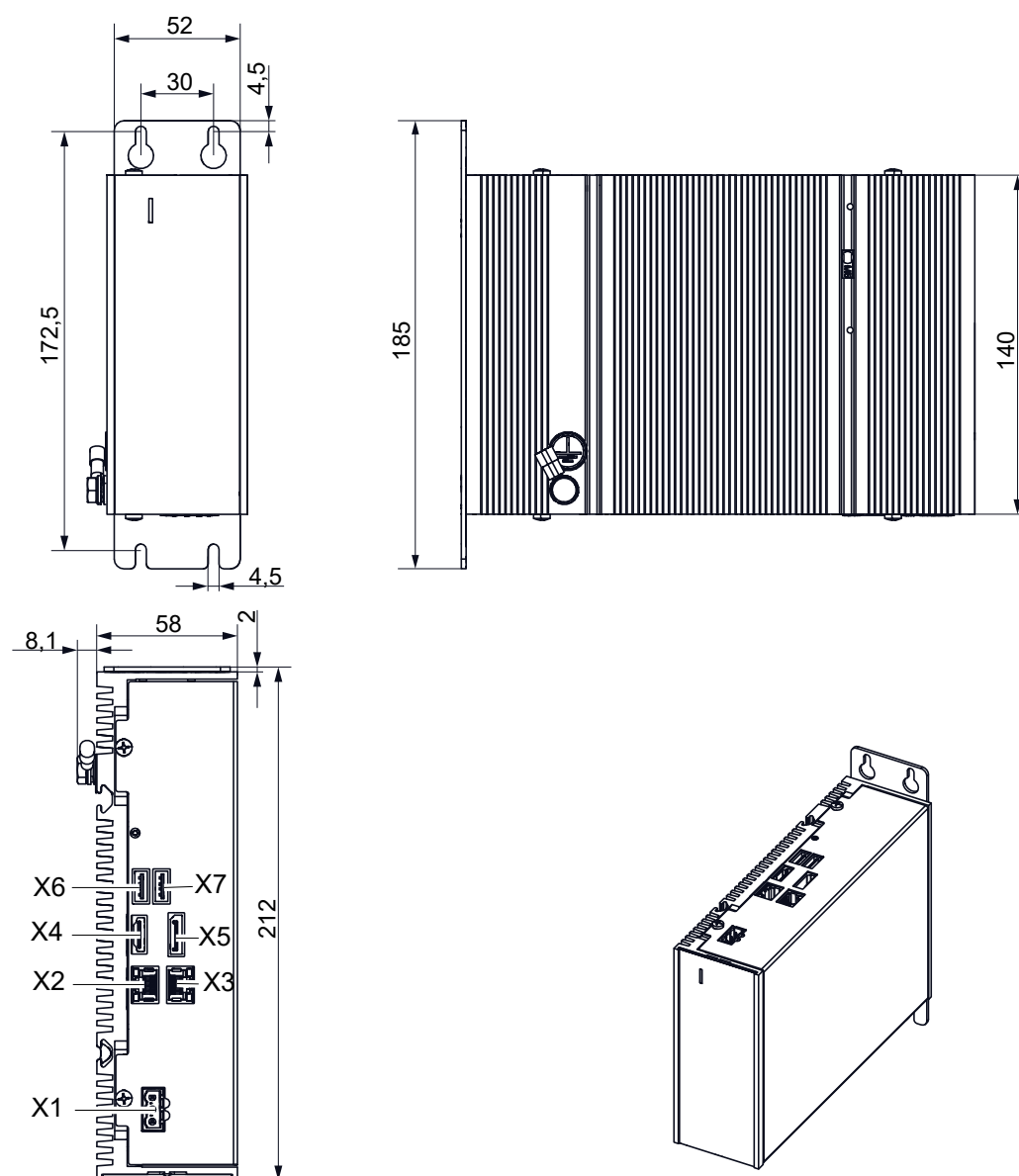
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TOX® UDI Module

Connection allocation

Designation	Model	Function	Assignment/definition
X1 Power	Phoenix MSTBA 2.5 3-G-5.08	Connection of TOX® UDI Module to the supply voltage.	PIN 1 - 24 VDC PIN 2 - GND PIN 3 - Remote Detect
X2 Ethernet TOX®	RJ45	Connection of TOX® PowerModule.	Gb Ethernet Realtek 811G
X3 Ethernet	RJ45	Connection of the customer network.	Gb Ethernet Realtek 811G
X4 HDMI	HDMI A Standard	Connection of a monitor to TOX® UDI Module.	HDMI 1.4b 4K at 30Hz
X5 DP	DP Standard	Connection of a monitor to TOX® UDI Module.	DP 1.2 4K at 60Hz
X6 / X7	2x USB A	Connection of e.g. a USB stick or keyboard.	3.0

Dimensions



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Mounting instructions and installation distances can be found in our operating instructions.