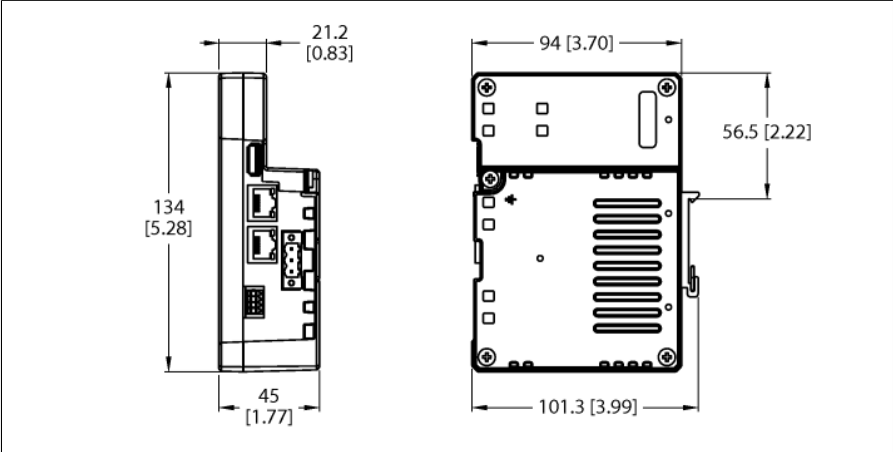


TX700 HMI/PLC Series
Single-Core IOT Gateway — CODESYS V3 PLC with WEB VI-
SU
Medium Housing, 2 × RJ45 Ethernet
TX700S-P3WV01



Type	TX700S-P3WV01
ID	100009353
Controller	
Processor	ARM Cortex A8, 1 GHz
Memory	4 GB Flash
RAM memory	512 MB
Add-on memory	1 x SD card slot, 1 x USB host port
Real time clock	yes (battery-backed)
PLC data	
Programming	CODESYS V3
Released for CODESYS version	V 3.5.12.10
Programming languages	IEC 61131-3 (IL, LD, FBD, SFC, ST)
Programming interface	Ethernet
Program memory	20000 kByte
Non-volatile memory	63 kByte
Interfaces	
Onboard	2 × RJ45 Ethernet, 1 × RS232/485/422, 1 × USB host, 1 × power supply, 2 × expansion slot
Onboard for selection	CANopen Master (via extension module)
Ethernet	2 x 10/100 Mbit
Protocols	PROFINET (Controller/Device) EtherNet/IP (Scanner/Adapter) Modbus TCP (Server/Client) EtherCAT (MainDevice)
Fieldbus	Modbus RTU (Server/Client) CANopen (Server)
USB	1 × host port
Serial	RS232 / RS485 / RS422
Expansion slot	One slot for up to two plug-in modules

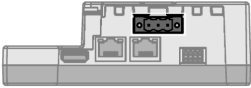
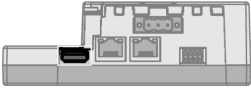
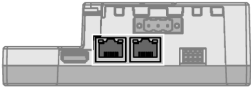
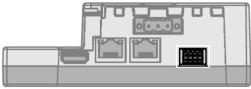
- 2 separated RJ45 Ethernet ports with 10/100 Mbit
- 1 serial interface (RS232, RS485, RS422)
- 1 USB host port
- 1 SD card slot

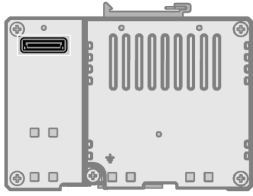
Power supply	
Rated value	24 VDC, max. 0.35 A
Admissible voltage range	10...32 VDC

General data	
Operating ambient conditions	-20...60 °C, 5...85 % relative humidity, non-condensing
Storage ambient conditions	-30...70 °C, 5...85 % relative humidity, non-condensing
Approvals	CE cULus
Ex approval	ATEX IEC Ex Haz. Loc. Class I, Division 2, Groups A, B, C and D
Protection class	IP20

Dimensions	
Front (W x H x D)	45 x 134 x 102 mm
Weight	approx. 0.56 kg

Connection and pin assignment

	Power Supply The power supply connector is delivered with each device. It can be reordered at Turck as accessories. Type designation: TX-Mount-xx	Pin Assignment  1 = 24 VDC 2 = 0 V 3 = $\frac{1}{2}$
	USB Interface	Pin Assignment  1 = 5 VDC 2 = D - 3 = D + 4 = GND
	Ethernet Ports The Ethernet ports are independent. Ethernet cables (examples): RJ45 male connector – RJ45 male connector: RJ45S-RJ45S-4414-2M (Order number: 6441423) RJ45 male connector – M12 male connector, 4-pin, D-coded: RSSD-RJ45S-4414-2M (Order number: 6441413) RJ45 male connector – M8 male connector, 4-pin: PSGS4M-RJ45S-4414-2M (Order number: 6933005) RJ45 male connector — M12 female receptacle, 4-pin, D-coded: RJ45-FKSD-4414-2M (order number: 6935282)	Pin Assignment  1 = TX + 2 = TX - 3 = RX + 4 = n.c. 5 = n.c. 6 = RX - 7 = n.c. 8 = n.c.
	Serial Interface The serial interface can be operated either as RS232, RS485 or RS422. The adjacent wiring diagrams show the respective pin assignments. PLEASE NOTE: In RS485 mode, pins 1 and 2 as well as 3 and 4 must be externally connected!	Pin Assignment in RS232 Operating Mode  1 = RX 2 = TX 3 = CTS 4 = RTS 5 = +5 VDC output 6 = GND 7 = n.c. 8 = shield Pin Assignment in RS485 Operating Mode  1 = B- (RX-) 2 = A- (TX-) 3 = B+ (RX+) 4 = A+ (TX+) 5 = +5 VDC output 6 = GND 7 = n.c. 8 = shield Pin Assignment in RS422 Operating Mode  1 = RX- 2 = TX- 3 = RX+ 4 = TX+ 5 = +5 VDC output 6 = GND 7 = n.c. 8 = shield



Port for Plug-in Module



SD Card Slot

SD card (example): SD CARD 2 GB (order number: 6828025)

Accessories

Type code	Ident no.		Dimension drawing
TX-LTE-WLAN	100025179	Plug-in LTE and Wi-Fi modem with LTE/UMTS/GSM, Wi-Fi and GNSS	

Function accessories

Type code	Ident no.		Dimension drawing
TX-IO-XX03	6828201	Plug-in I/O module — 20 DI, 12 DO, 4 AI (U/I/RTD/TC), 4 AO (U/I)	
TX-IO-DX06	6828203	Plug-in I/O module — 8 DI, 6 DO, 1 relay output (NO)	
TX-EXTEND	100004786	Plug-in extension module for mechanical adjustment for using the TX-IO-XX03 module	
TX-DP-S	100010167	Plug-in PROFIBUS DP slave interface, 9-pin SUB-D female connector	
TX-CAN	6828210	Plug-in CANopen interface, 9-pin SUB-D male connector	
TX-RS485	100002598	Plug-in interface for RS485/RS422, 9-pin SUB-D female connector	
TX-RS232	100002599	Plug-in interface for RS232, 9-pin SUB-D female connector	
TX-PSC	100002938	Power Supply Male Connector for TX HMI Devices	