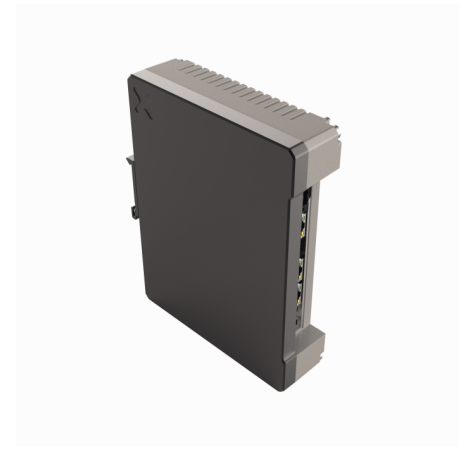
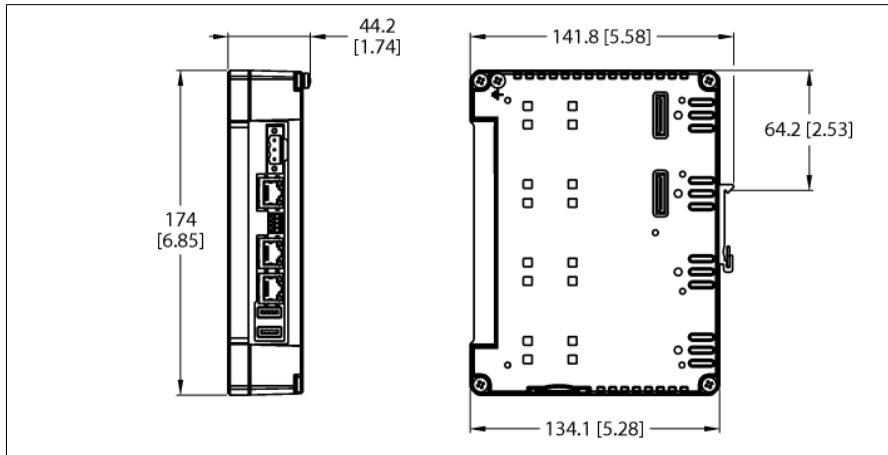


# Dual-Core IOT Gateway — CODESYS V3 PLC with WEB VISU TX800L-P3WV01

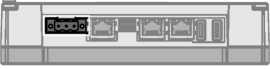
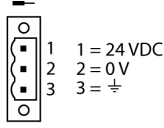

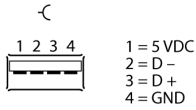

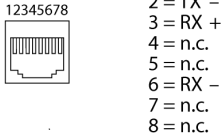
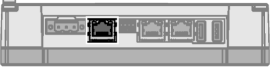
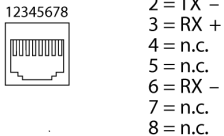


Type	TX800L-P3WV01
ID	100046998
<b>Controller</b>	
Processor	64-bit RISC, Quad core 1.6 GHz
Memory	8 GB Flash
RAM memory	2048 MB
Add-on memory	1x SD card slot, 2 USB host ports
Real time clock	yes (battery-backed)
<b>PLC data</b>	
Programming	CODESYS V3
Released for CODESYS version	V 3.5.18.30
Programming languages	IEC 61131-3 (IL, LD, FBD, SFC, ST)
Programming interface	Ethernet
Program memory	20000 kByte
Non-volatile memory	63 kByte
<b>Interfaces</b>	
Onboard	3 × RJ45 Ethernet, 1 × RS232/485/422, 2 × USB host, 1 × power supply, 2 × expansion slot
Onboard for selection	CANopen master (via extension module)
Ethernet	ETH0 - 10/100/1000 Mbit ETH1 - 10/100 Mbit ETH2 - 10/100 Mbit
Protocols	PROFINET (Controller/Master) EtherNet/IP (Scanner/Master) Modbus TCP (Master/Slave) EtherCAT (Master)
Fieldbus	Modbus RTU (Master/Slave) CANopen (Master)
USB	2 × host ports
Serial	RS232 / RS485 / RS422
Expansion slot	Two slots for up to four plug-in modules
<b>Power supply</b>	
Rated value	24 VDC, max. 0.5 A
Admissible voltage range	10...32 VDC

- 1 RJ45 Ethernet port with 10/100/1000 Mbit
- 2 RJ45 Ethernet ports with 10/100 Mbit
- 1 serial interface (RS232, RS485, RS422)
- 2 USB host ports
- 1 SD card slot

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
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)	44 x 174 x 144 mm
Weight	approx. 0.65 kg

## Connection and pin assignment

	<p><b>Power Supply</b> The power supply connector is supplied with each device.</p>	<p>Pin assignment</p> 
	<p><b>USB Interface</b></p>	<p>Pin assignment</p> 
	<p><b>Ethernet</b> Ethernet ports ETH1 and ETH2 (10/100 Mbit) The Ethernet ports are independent but can be bridged with ETH0. Ethernet cables (examples): <b>RJ45 male connector — RJ45 male connector:</b> RJ45S-RJ45S-4414-2M (ID: 6441423) <b>RJ45 male connector — M12 male connector, 4-pin, D-coded:</b> RSSD-RJ45S-4414-2M (ID: 6441413) <b>RJ45 male connector — M8 male connector, 4-pin:</b> PSGS4M-RJ45S-4414-2M (ID: 6933005) <b>RJ45 male connector — M12 female receptacle, 4-pin, D-coded:</b> RJ45-FKSDD-4414-2M (ID: 6935282)</p>	<p>Pin assignment</p> 
	<p><b>Ethernet</b> Ethernet port ETH0 (10/100 Mbit)</p>	<p>Pin assignment</p> 




### 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

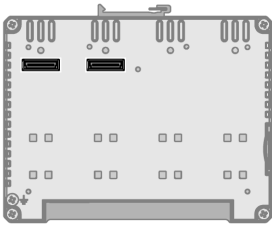
- 
- 1 = RX
  - 2 = TX
  - 3 = CTS
  - 4 = RTS
  - 5 = +5 VDC output
  - 6 = GND
  - 7 = n.c.
  - 8 = shield

#### 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




### Ports for Plug-in Modules




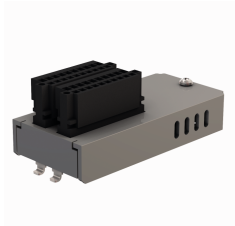


### SD Card Slot

SD card (example): 2-GB SD CARD (ID: 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-UMTS	100009535	Plug-in radio modem with 2G/3G support	
TX-DP-S	100010167	Plug-in PROFIBUS DP slave interface, 9-pin SUB-D female connector	

## Function accessories

Type code	Ident no.		Dimension drawing
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	