

# TX HMI/PLC Series

## Plug-In Module

### LTE and Wi-Fi Modem (4G & Wi-Fi)

#### TX-LTE-WLAN

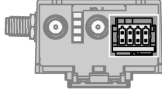

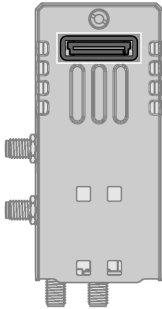
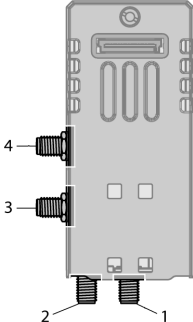



- Plug-in extension module for use with HMI/PLC devices of the TX700 product series
- Supports LTE (FDD/TDD), GSM (GPRS/EDGE) AND UMTS (DC-HSDPA/HSUPA/WCDMA) mobile networks
- Wi-Fi functionality according to IEEE 802.11a/b/g
- Position determination via GNSS
- 2 digital inputs/2 digital outputs
- 4 LED indicators (module status and network status)
- Micro-SIM slot
- With plug-in expansion slot

Type	TX-LTE-WLAN
ID	100025179
<hr/>	
System power supply	From the HMI
<hr/>	
Mobile interface modem	
2G mobile standard	GSM GPRS EDGE
2G frequencies	Quad band: 850/900/1800/1900 MHz
3G mobile standard	UMTS DC-HSDPA HSUPA WCDMA
3G frequencies	Seven band: B1/B2/B4/B5/B6/B8/B19
4G mobile standard	LTE FDD LTE TDD
4G frequencies	FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/ B20/B26/B28 TDD: B38/B39/B40/B41
GNSS function	GPS, GLONASS, BeiDou/Compass, Galileo, QZSS
SIM card format	Micro-SIM (3FF)
Antenna interface	SMA connector
Antenna connection note	Antennas included in delivery.
<hr/>	
Wi-Fi modem	
Wi-Fi standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g
Wi-Fi frequencies	2.4 GHz 5 GHz
antenna connection	RP-SMA female connector
Antenna connection note	Antennas included in delivery.
<hr/>	
Standard/Directive conformity	
Approvals and certificates	CE, cULus, FCC

Dimensions (W x L x H)	41.2 x 90.5 x 23.8 mm
Ambient temperature	-20...+60 °C
Storage temperature	-20...+70 °C
Relative humidity	5...85 %, non-condensing
Protection class	IP20
Housing material	Metal
Housing color	Silver
Mounting	On HMIs from the TX700 product series

## Connection and pin assignment

	<p><b>Digital Inputs and Outputs</b></p> <p>Two digital inputs/two digital outputs (SSR). Male connector included in delivery.</p>	<p>Pin assignment</p>  <ul style="list-style-type: none"> <li>1 = OUT 1A</li> <li>2 = OUT 1B</li> <li>3 = OUT 2A</li> <li>4 = OUT 2B</li> <li>5 = IN 1+</li> <li>6 = IN 1-</li> <li>7 = IN 2+</li> <li>8 = IN 2-</li> </ul>
	<p><b>Port for Plug-in Module</b></p> <p>The expansion slot can be used for another plug-in module. The possible module combinations are described in the manual for base units.</p>	
	<p><b>Antenna Interface</b></p> <ul style="list-style-type: none"> <li>1: Slot for LTE main antenna</li> <li>2: Slot for GNSS antenna</li> <li>3: Slot for LTE RX diversity antenna</li> <li>4: Slot for Wi-Fi antenna</li> </ul>	
	<p><b>SIM Card Slot</b></p> <p>Micro-SIM format (3FF)</p>	

## LED Status (User-Configurable LEDs)

LED	Mode	State	Description
LED1	None	Not in use	Not in use
	User controlled	Via HMI application	Via HMI application
	Cloud	On	Up
		Off	Down
		Flashing	Error
	Mobile connection	On	Up
		Off	Down
		Flashing	Error
	LED2	None	Not in use
User controlled		Via HMI application	Via HMI application
Cloud		On	Up
		Off	Down
		Flashing	Error
Mobile connection		On	Up
		Off	Down
		Flashing	Error


## LED Status (Non-Configurable)

LED	State	Description
LED3	On	Modem active
	Off	Modem inactive
LED4	Flashing	Network activity

## Function accessories

Type code	Ident no.		Dimension drawing
Antenna-WiFi-Short-01	100029650	Antenna for mounting on the device	
Antenna-WiFi-Wall-3m-01	100029652	Antenna for wall mounting	
Antenna-WiFi-Adhesive-3m-01	100029653	Antenna for adhesive mounting	
Antenna-WiFi-Cabinet-3m-01	100029654	Antenna for mounting on the control cabinet	
Antenna-LTE-Short-01	100029655	Antenna for mounting on the device	
Antenna-LTE-Adhesive-3m-01	100029657	Antenna for adhesive mounting	

## Function accessories

Type code	Ident no.		Dimension drawing
Antenna-LTE-Cabinet-3m-01	100029658	Antenna for mounting on the control cabinet	
Antenna-LTE-Wall-3m-01	100029656	Antenna for wall mounting	