ID Number: 100025179

# TX HMI/PLC Series
# Plug-In Module
# LTE and Wi-Fi Modem (4G & Wi-Fi)
# TX-LTE-WLAN



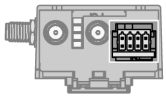
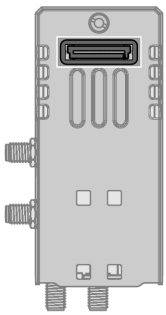
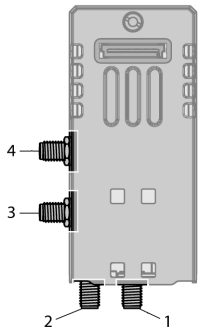
- **Plug-in extension module for use with HMI/PLC devices of the TX700 product series**
- **Supports LTE (FDD/TDD), GSM (GPRS/EDGE) AND UMTS (DC-HSDPA/HSUPA/WCDMA) mobile networks**
- **Wi-Fi client or access point functionality according to IEEE 802.11a/b/g (req. TX HMI/PLC hardware version 1219 or greater)**
- **Position determination via GNSS (req. TX HMI/PLC hardware version 1219 or greater)**
- **2 digital inputs/2 digital outputs**
- **4 LED indicators (module status and network status)**
- **Micro-SIM slot**
- **With plug-in expansion slot**

| | |
|---|---|
| **Type designation** | TX-LTE-WLAN |
| Ident-No. | 100025179 |
| **System power supply** | From the HMI |
| **Mobile interface modem** | |
| 2G mobile standard | GSM<br>GPRS<br>EDGE |
| 2G frequencies | Quad band: 850/900/1800/1900 MHz |
| 3G mobile standard | UMTS<br>DC-HSDPA<br>HSUPA<br>WCDMA |
| 3G frequencies | Seven band: B1/B2/B4/B5/B6/B8/B19 |
| 4G mobile standard | LTE FDD<br>LTE TDD |
| 4G frequencies | FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B26/B28<br>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. |
| **Wi-Fi modem** | |
| Wi-Fi standards | IEEE 802.11a<br>IEEE 802.11b<br>IEEE 802.11g |
| Wi-Fi frequencies | 2.4 GHz<br>5 GHz |
| antenna connection | RP-SMA female connector |
| Antenna connection note | Antennas included in delivery. |
| **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 |

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**Connection and pin assignment**

| | | |
|---|---|---|
|  | **Digital Inputs and Outputs**<br>Two digital inputs/two digital outputs (SSR).<br>Male connector included in delivery. | Pin assignment<br><br>1 = OUT 1A<br>2 = OUT 1B<br>3 = OUT 2A<br>4 = OUT 2B<br>5 = IN 1+<br>6 = IN 1–<br>7 = IN 2+<br>8 = IN 2– |
|  | **Port for Plug-in Module**<br>The expansion slot can be used for another plug-in module. The possible module combinations are described in the manual for base units. | |
|  | **Antenna Interface**<br>1: Slot for LTE main antenna<br>2: Slot for GNSS antenna<br>3: Slot for LTE RX diversity antenna<br>4: Slot for Wi-Fi antenna | |
|  | **SIM Card Slot**<br>Micro-SIM format (3FF) | |

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**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 | 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 |

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## 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 |  |

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## Function accessories

| Type code | Ident-No. | | Dimension drawing |
|---|---|---|---|
| Antenna-LTE-Adhesive-3m-01 | 100029657 | Antenna for adhesive mounting |  |
| Antenna-LTE-Cabinet-3m-01 | 100029658 | Antenna for mounting on the control cabinet |  |
| Antenna-LTE-Wall-3m-01 | 100029656 | Antenna for wall mounting |  |

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