



Corinex Installation Guide

Corinex 1T External Modem
CXP-HD200-GH1T

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 **NOTE:** This equipment has been tested and found to comply with the limits for Class B information technology equipment. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference, the end user is advised to take adequate measures.

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Acronyms

Autoconf	Auto configuration
AC	Alternating Current
BPL	Broadband over Power Line
CPE	Customer Premise Equipment
DC	Direct Current
ETH	Ethernet
SMGW	Smart Meter Gateway
TLS	Transport Layer Security
TSM	Transport Security Model
USM	User Based Security Model

1. General Information

This document is a general description and installation guide for the following device:

- Corinex 1T External Modem (CXP-HD200-GH1T)

1.1 Included in the delivery of the CXP-HD200-GH1T

- Corinex 1T External Modem (CXP-HD200-GH1T)

2. Hardware

2.1 Installation

CXP-HD200-GH1T is designed to install beside the SMGW (smart meter gateway), using its din rail mount option.

Open both covers of the meter and place the BPL modem in din rail and close to SMGW.



Figure 1: CXP-HD200-GH1T Mounting

2.2 Status LEDs

CXP-HD200-GH1T has 4 LEDs showing its operational status. All of them are clearly marked on the casing.

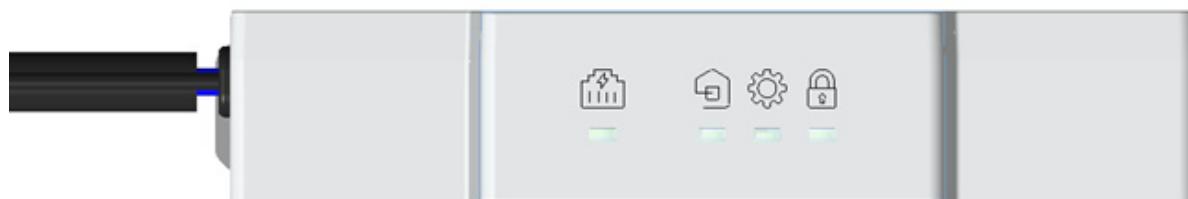


Figure 2: CXP-HD200-GH1T LEDs



Power

Function: Shows DC power supply and device auto-configuration status

Different statuses are given below:

LED Status	ON (Green)	OFF	Fast Flashes	Slow Flashes
Function	Ethernet is linked and, power is ON and autoconf is finished, or power is ON and device is using NVRAM settings.	Power is off.	N/A	Power is ON and waiting for configuration to be completed.



Ethernet

Function: Shows Ethernet and SMGW authentication status

Different statuses are given below:

LED Status	ON (Red)	OFF	Fast Flashes	Slow Flashes
Function	Ethernet is down	Normal	SMGW authentication failed	N/A



BPL Link

Function: Shows the status of BPL link

Different statuses are given below:

LED Status	ON	OFF	Fast flashes	Slow flashes
Function	BPL link established	No BPL link	BPL link activity	N/A



System status

Function: Shows general system status

Different statuses are given below:

LED Status	ON	OFF	Fast flashes	Slow flashes
Function	Management VLAN enabled, and IPv6 link-local address ready.	System is booting, or waiting for system check.	System check or upgrade failed. System upgrade successful, if it syncs with Secure Link LED	System upgrade in progress



Secure Link

Function: Secure link indication

Different statuses are given below:

LED Status	ON	OFF	Fast flashes	Slow flashes
Function	USM: Last received SNMP message successful.	USM: Last received SNMP message failed.	System upgrade successful, when it syncs with System Status LED	USM: SNMP message in process before authentication successful
	TSM: Persistent TLS link established.	TSM: Persistent TLS link not established yet.		TSM: Establishing TLS link

2.3 Connectors

CXP-HD200-GH1T has two connectors. One for ethernet connection and second one for power/coupling.

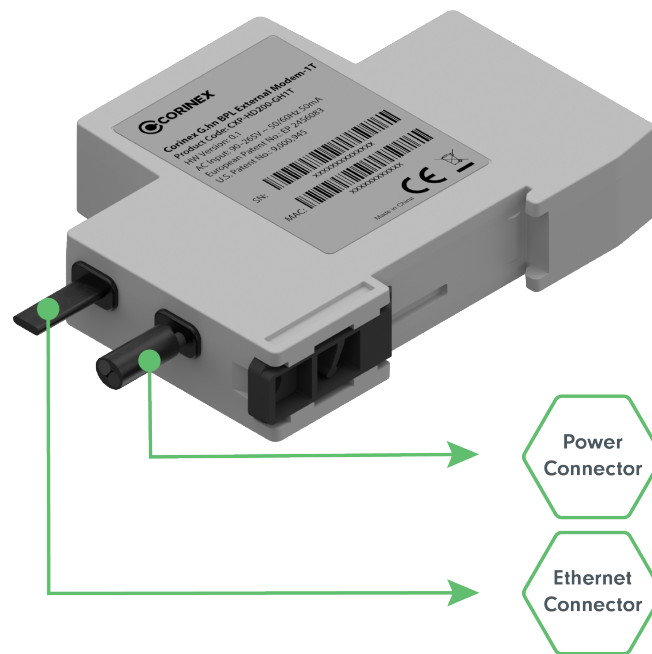


Figure 3: CXP-HD200-GH1T connectors

3. Software and Initial Setup

After bootup, CXP-HD200-GH1T starts with some default settings. To change its settings, auto-configuration mechanism can be used which involves provisioning using the Corinex Grid-Value Software system.

4. Commissioning

4.1 Installation

Mount the device using the DIN rail. Refer section 2.1 for more details.

4.2 Powering up the device

CXP-HD200-GH1T gets its power using ethernet cable. Connect the ethernet cable to the SMGW ethernet port as shown below:

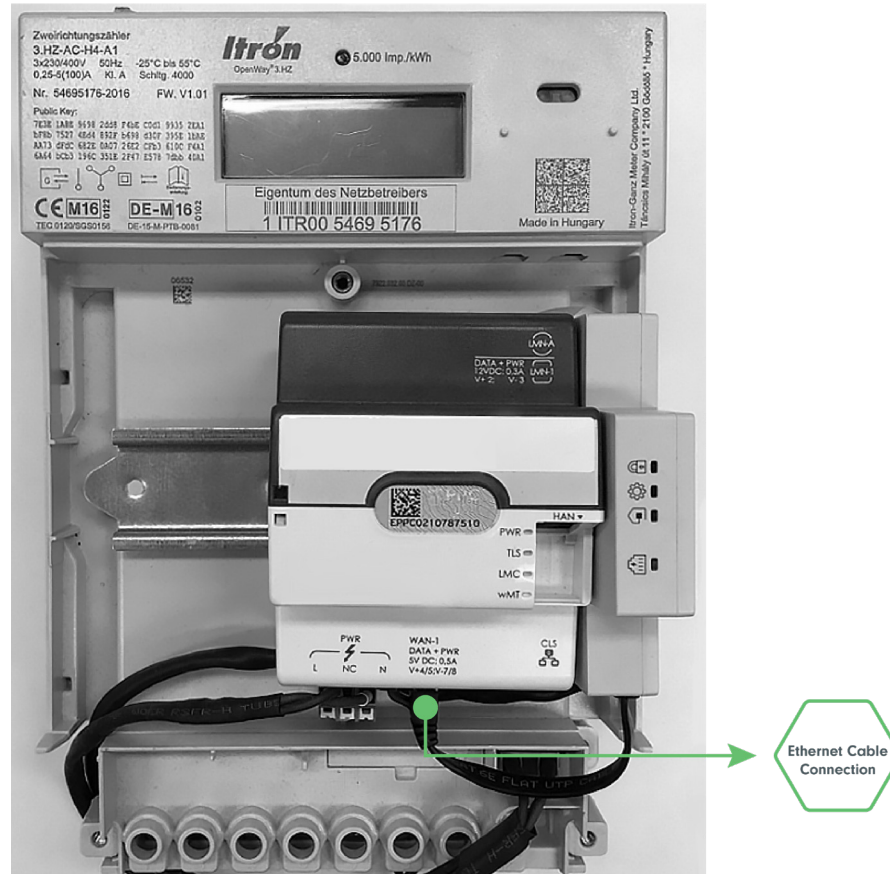


Figure 4: CXP-HD200-GH1T Ethernet cable connection

4.3 BPL Coupling

CXP-HD200-GH1T has an internal single-phase BPL coupler. The coupling cable is to be connected to the same ports from where SMGW is getting power as shown in below picture.

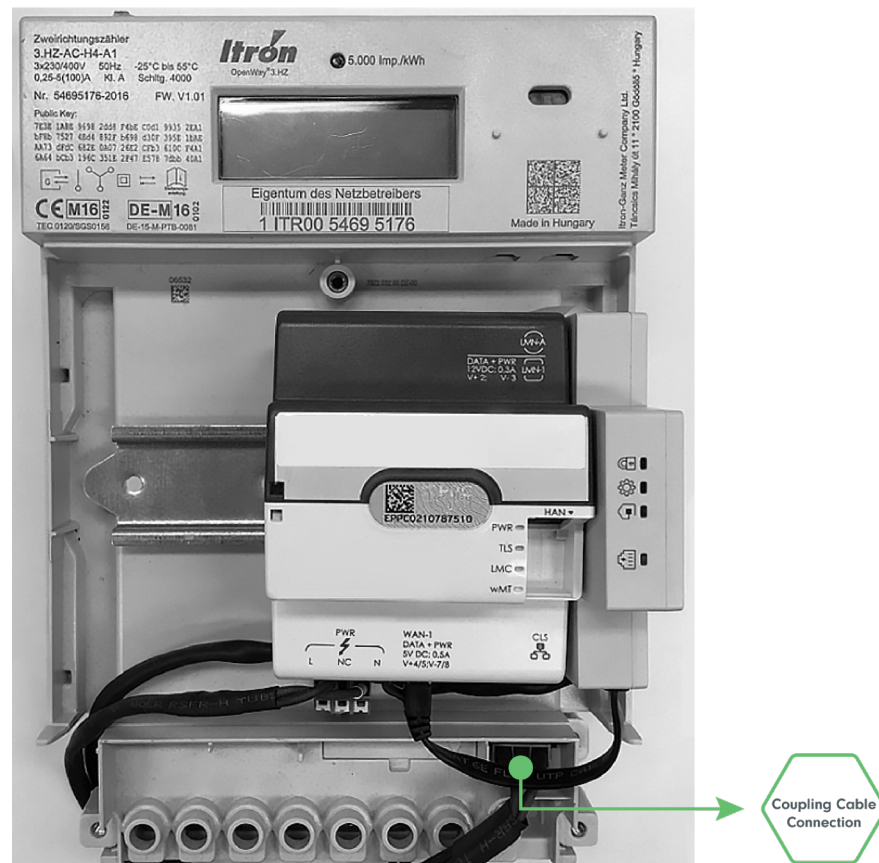


Figure 5: CXP-HD200-GH1T coupling cable connection

4.4 Cover Installation

After completing the ethernet cable & coupling cable installation, install both covers and tighten the screws. Final setup should look like below. The screws are marked by green hexagons.



Figure 6: CXP-HD200-GH1T installation