CORINEX
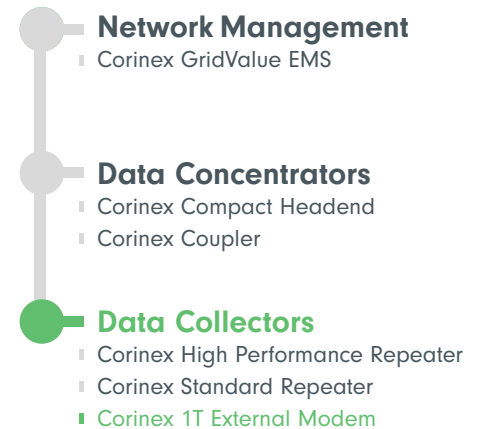
EnergyGrid
Solution

Corinex 1T External Modem

As part of our Broadband over Power Line (BPL) end-to-end solution, the modem is specifically designed to be compatible with the German deployed smart meter. It collects end-user data and provides secure, near real-time communication over utility customers' existing electric infrastructure. The 1T External Modem, along with our vertically integrated products and GridValue Elements Management Software (EMS), is enabling utilities to provide the next generation of smart-grid applications and distributed energy resource services.

Network Management
▪ Corinex GridValue EMS

Data Concentrators
▪ Corinex Compact Headend
▪ Corinex Coupler

Data Collectors
▪ Corinex High Performance Repeater
▪ Corinex Standard Repeater
▪ Corinex 1T External Modem

Features

• Corinex BPL's superior communication performance & voltage sensing capability

• Superior coverage compared to wireless technologies

• Promotes network ownership and gives control back to utilities

• A proven and tested solution that reduces deployment risks

• Faster roll-out demonstrated by pilot studies

• Low cost, inter-operable and future-proof solution

• Developed and validated by 5 leading market vendors

Key Benefits

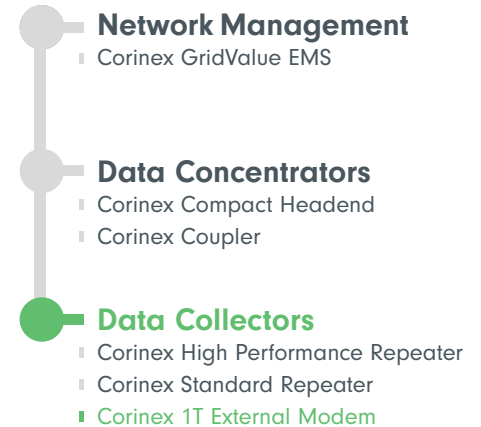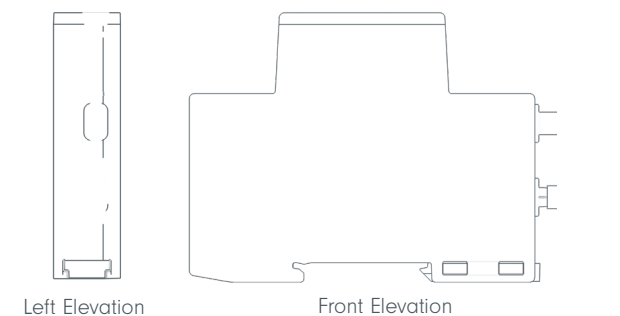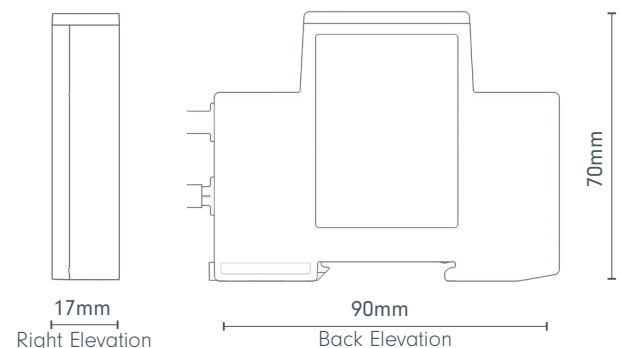| End-To-End Integrated Solution	Near Real-Time Visibility	High Speed Networking	Encryption And Security	Grid Control Management	Scalable Dependable Coverage

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Technical Specifications

Model No.		CXP-HD200-GH1T
Electrical	Power Input	1-Phase (2-wire) @ 50/60Hz 90-265V (line to Neutral)
	Power Consumption	2.5W
Mechanical	Dimensions	90mm x 70mm x 17mm
	Weight	200 grams
	Mounting	DIN Rail
	Enclosure	Plastic (PC), IP40
Environmental	Safety and EMI	CE and CE Mark, Class II, RoHS
	Operating Humidity	0% to 90% non-condensing
	Operating Temperature	-40C to +70C
	Noise Immunity	DIN EN 61000
	Fire Class	DIN 60950-1, V-1
Communication	PLC Standard	G.hn-BPL (ITU-T- G9960)
	Backbone Speed	Up to 200Mbps on physical layer
	Ethernet Interface	10/100 Mbps Autosensing and Auto MDX
	PLC Interface	AC Port for BPL Coupling
	Frequency Range	2 - 50 MHz
	Protocols	IPv4/v6 Dual Stack - SNMPv3 with TLS 1.2 - FTP(S) - DHCP - RADIUS -IEEE 802.1p - IEEE 802.1q - IGMP/MLD - NTP - IEEE 802.1x - EST/RFC7030 - OCSP - MQTT - LCMP - TFTP
	MAC Address	1024
	Max VLAN/OVLAN Tags	16

LABORATORY SPECIFICATIONS | ACTUAL TRANSMISSION SPEEDS MAY DIFFER DUE TO ENVIRONMENTAL CONDITIONS

70mm

17mm
Right Elevation

90mm
Back Elevation

Left Elevation

Front Elevation

SCHEMATIC DRAWINGS NOT TO SCALE