Corinex Low Voltage Gateway

Corinex SmartGrid Connectivity™

Introduction

The Low Voltage (LV) Gateway with integrated three-phase coupler is the latest development in 200 Mbps AV200 technology from Corinex. The LV Gateway allows for easy installation in neighbourhoods or single- and multi-dwelling units (MDUs) where the LV Gateway acts as a head-end modem, and extending existing internet connection (Fibre, ADSL, Satellite, etc.) over powerline or coaxial cable, depending on customer requirements and available infrastructure.

The Corinex LV Access Gateway allows users to extend an internet connection to a powerline or cable network within an MDU, without the need for installing new wiring. End users can connect their Ethernet enabled devices such as PC, VoIP phones, Media Centres etc. using the Corinex AV200 Powerline Ethernet Adapter or Corinex AV200 CableLAN Adapter (connected to any electrical or coaxial socket in a premise) to create a link to the internet.

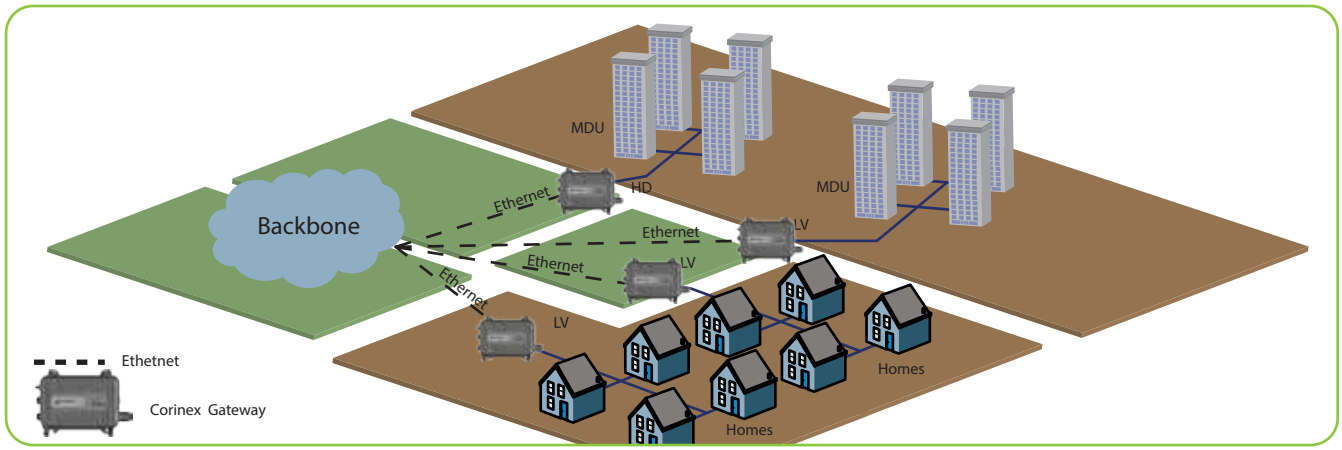
Corinex is the first company in the world to include a three-phase coupler integrated into the design, providing the end user with a more reliable, flexible connection to the powerline access network. With the integrated coupler design, the customer can choose either a single-phase or three-phase connection anytime, without the need for additional accessories or modifications during or after installation.

AV200 Powerline technology by Corinex provides numerous networking possibilities with amazingly fast physical layer transfer rates of up to 200 Mbps. OFDM technology and the powerful error correction system used in AV200 technology allow for robust performance under harsh conditions in electrical or coaxial networks.

Combined with other Corinex Access and In-Premise products such as the Corinex Medium Voltage Gateway, Corinex AV200 Powerline Ethernet Adapter, and Corinex AV200 CableLAN Adapter, the Corinex LV Gateway rounds out the largest 200 Mbps Powerline product portfolio in the world.

Features

- Physical data rates of up to 200 Mbps over distances of 500 meters (LV powerline)
- Powerline and coaxial network interface ports allowing an internet connection to be extended over electrical wiring or existing cable infrastructure
- 802.1Q VLAN & Optimized VLANs
- Powerful DES/3DES/AES encryption
- Integrated 802.1D Ethernet Bridge With Optimized Spanning Tree Protocol
- 8-level priority queues, with programmable priority classification
- Engine Priority classification according to 802.1P tags, IP coding (IPv4 or IPv6) or TCP source/destination ports
- 10/100BaseT Fast Ethernet interface for connection to the Internet Gateway
- Bridge Forwarding T able for 64 or1024 M AC Addresses
- OFDM technology and powerful error correction system allow robust performance under harsh conditions in the electrical/cable network
- Optimized support for broadcast and multicast traffic
- Configuration via web interface or Corinex SmartGrid Netman
- Integrated three-phase coupler with line to neutral capacitive coupling
- Industrial-grade IP68 housing



Technical Specifications

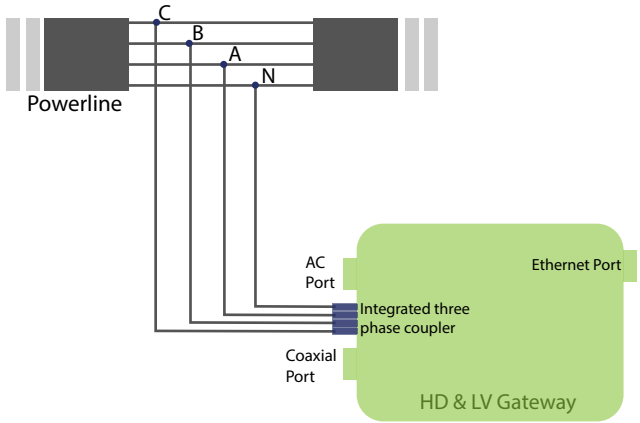
Standards Safety and EMI	IEEE 802.3u, 802.1P, 802.1Q, FCC Part 15, OPERA EN 50412, EN 55022, EN 55024, EN 60950
Backbone Speed	Up to 200 Mbps on physical layer 100 Mbps on Ethernet
Three Phase Coupler to Powerline	110VAC / 220VAC / 240VAC
Interface	10/100BaseT Fast Ethernet, Powerline Port, Coaxial Port
Frequency Range	2 – 34 MHz
Power Input	85 to 265VAC, 50/60 Hz
Weight	2 kg
Dimensions	230 × 185 × 80 mm
Transmitted Power spectral density	-53 dBm/Hz (for LVA model only) -50 dBm/Hz (for all other models)
Power Consumption	7 W
Operating Temperature	-20° to 70° C (-4° F to 158° F)
Operating Humidity	10% to 80% non-condensing

Product Specification

	MAC Addresses	Powerline Ports	Product Code
LV Gateway	64	32	CXP-LVA-GWYC

	Total VLAN + OVLAN TAGS	VLAN TAGS PER PORT	OVLAN TAGS PER PORT
CXP-LVA-GWYC	255	255	255

Integrated three-phase coupler



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