

200Mbps over existing electrical wires!

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AV200 Powerline Ethernet Adapter

The Corinex AV200 Powerline Ethernet Adapter is the world's first product that supports the distribution of video, voice, and broadband internet access over a premises existing electrical wires. With transfer rates of up to 200 Mbps, the Corinex AV200 Powerline Ethernet Adapter has ample bandwidth to stream several high quality video signals, such as HDTV, while simultaneously delivering high speed internet access throughout an entire premise! The AV200 Powerline Product family consists of an Adapter, Router, ADSL2+ Wireless Gateway and a CableLAN adapter and CableLAN router for coaxial networking applications, all offering 200Mbps communications.

The AV200 Powerline technology by Corinex provides numerous networking possibilities with amazingly fast physical layer transfer rates up to 200 Mbps. Finally, real world multimedia network applications can be created without adding any new wiring, simply plug in a Corinex AV200 Powerline Ethernet Adapter and any computing device in the entire premise is ready to receive high bandwidth multimedia signals.

Application priority levels are retained, ensuring that applications with real-time requirements, such as VoIP, streaming video and multiplayer head-to-head games do not experience glitches, frame loss, or delays, even if other users in the network are downloading large files, websurfing or downloading or listening to MP3 songs.

The Corinex AV200 Powerline Ethernet Adapter allows users to create a high-speed local area network, without the need or new cabling. Users can connect the AV Powerline Ethernet Adapter to virtually any electrical socket in their home or office to create a link to the powerline network. The network can be connected to an internet gateway, such as an ADSL or cable modem, providing a convenient extension of the internet to the powerline within a premise.

Any ethernet-enabled device, such as a desktop computer, network printer, laptop computer, or a security camera connect to the AV200 powerline network.

There are two versions of the Corinex AV200 Powerline Ethernet Adapter. The Home Users Edition of the product is meant for home networking applications and simple plug and play installations. The Commercial Edition of the product is used for advanced networking applications, deployments in Multi dwelling Units and operators providing BPL Access.

Features

- 10/100BaseT Fast Ethernet interface
- Physical data rate in the powerline up to 200 Mbps with distances up to 300 m.
- Built-in repeating capabilities for increased coverage
- CSMA/CARP (Carrier Sense Multiple Access with Collision Avoidance and Resolution using Priorities) protocol
- Integrated 802.1D Ethernet Bridge With Optimized Spanning Tree Protocol
- Bridge Forwarding Table for 64 MAC Addresses
- 802.1Q VLAN & Optimized VLANs
- Powerful DES/3DES encryption
- OFDM technology and powerful error correction system allow robust performance under harsh conditions in the electrical network
- 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
- Optimized support for broadcast and multicast traffic
- MAC filtering - can discard Ethernet frames if they come from a source MAC address which is not present in a list of allowed MAC addresses
- Configuration using an embedded web interface



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Commercial Edition:

- Console Interface
- Dynamic IP Address with auto-config
- Manual MASTER / SLAVE configuration
- VLAN and OVLAN Support
- RADIUS server authentication support
- Programmable bandwidth allocation
- Master Node HE or Repeater
- Slave CPE Node
- Can be used for MV/LV BPL networks

Standards

- 802.3u
- 802.1P
- 802.1Q
- Compliant with FCC Part 15, EN 55022 EMC limits

Product Codes:

Corinex AV200 Powerline Ethernet Adapter
CXP-AV200-ETH - Home Edition
CXP-AV200-ETHC - Commercial Edition

Home User Edition:

- Web interface
- Fixed IP or DHCP
- Default IP 10.10.1.69
- The MASTER and SLAVE can be set manually or automatically
- VLAN tagging without filtering

Package Content

- Corinex AV200 Powerline Ethernet Adapter
- One straight-forward CAT5 ethernet cable
- One AC power cable
- CD with documentation
- Printed Quick Start Guide

Standards Compliance	IEEE 802.3u
Speed	Up to 200 Mbps on physical layer
AC Plug Type	US, EU, UK and AUS
LED Status Lights	Power on, PLC Link/Activity Ethernet link
Interface	10/100BaseT Fast Ethernet, Powerline
Frequency Range used	2 – 34 MHz
Power Input	85 to 265 V AC, 50/60 Hz
Dimensions	148 mm L x 106 mm W x 47 mm H 5.82" L x 4.17" W x 1.85" H
Weight	0.28 kg (0.61 lb)
Transmitted Power spectral density	-56 dBm/Hz
Power Consumption	10 W
Safety & EMI	FCC Part 15, EN 55022 EMC limits
Operating Temperature	0° to 50°C (32°F to 122°F)
Operating Humidity	10% to 80% non-condensing

