

# AV200 Powerline Ethernet Wall Mount F



**200 Mbps  
over existing  
electrical  
wires!**



## Introduction

The Corinex AV200 Powerline Ethernet Wall Mount F with a pass-through female outlet was developed to meet the requirements for self-installation of Digital Entertainment Platforms. This unique product will support the distribution of video on demand (VOD), IPTV, voice, and broadband internet access over existing electrical wires. A whole home video network over Powerline!

With transfer rates of up to 200 Mbps, the Corinex AV200 Powerline Ethernet Wall Mount F has ample bandwidth to stream several high quality video signals, including HDTV, while simultaneously delivering high speed internet access throughout the home.

The AV200 Powerline technology by Corinex provides numerous networking possibilities. Finally, real world multimedia network applications can be created, without adding any new wiring, by simply plugging in a Corinex AV200 Powerline Ethernet Wall Mount F into any computing/ media device. Now all the electrical outlets in the home are ready to receive high bandwidth multimedia signals.

Application priority levels are retained, ensuring that VoIP, broadcast TV, 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 streaming MP3 songs. Ethernet QoS is fully supported to ensure high priority traffic retains its priority on the Powerline network.

“Video Performance Indicator™” provides a mechanism for help desks to indicate to the customer via the Powerline LED, that the Powerline network is operating beyond a minimum throughput to guarantee video performance.

Ensuring security of the customer’s Powerline network and protecting video content is critically important. Corinex AV200 Powerline networks are protected by DES / 3DES (168 bit) encryption.

Corinex AV200 technology uses the frequency spectrum from 2 MHz to 34 Mhz. The Corinex AV200 Powerline Ethernet Wall Mount F has a flexible means to eliminate possible interference with a feature called “frequency notching”. When turned on, the AV200 will not transmit or receive on the “notched frequencies”. There are a total of 40 separate notches available.

Corinex AV200 adapters comes standard with “frequency notching” turned on and the notches pre-configured to meet the guidelines of the International Amateur Radio Union (IARU).

Electrical noise generated by devices such as hair dryers and vacuums can sometimes cause interference on a Powerline network. In some cases, particularly with multi-stream video, this interference can cause problems with video quality. The Corinex AV200 Powerline Ethernet Wall Mount F has an integrated noise filter that eliminates noise and interference and ensures perfect video streaming.

## Features

- 10/100BaseT Fast Ethernet interface
- Integrated Powerline Noise Filter
- Integrated electrical outlet
- Physical data rate in the powerline up to 200 Mbps with distances up to 300 m.
- 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 32 MAC Addresses
- 802.1Q VLAN & Optimized VLAN tag processing
- VLAN Tagging at source
- Powerful DES/3DES (168 BIT) encryption
- OFDM technology and powerful error correction system allow robust performance under harsh conditions in the electrical network
- 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
- Management (TR-069 or web interface)
- Fixed IP or DHCP
- Plug and Play or Remote/Manual configuration