



## Your Holiday Park

200Mbps over existing electrical wires!

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## AV200 Powerline Ethernet Wall Mount F

### Introduction

The React AV200 Powerline Ethernet Wall Mount F with a passthrough 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. whole home video network over Powerline!

With transfer rates of up to 200 Mbps, the React 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 React provides numerous networking possibilities. Finally, real world multimedia network applications can be created, without adding any new wiring, by simply plugging in a React AV200 Powerline Ethernet Wall Mount F into any computing/ media device. Now all the electrical outlets 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 fully supported to ensure high priority traffic retains it's 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. React AV200 Powerline networks are protected by DES / 3DES (168 bit) encryption.

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

React 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 React 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





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## AV200 Powerline Ethernet Wall Mount F

### Package Contents

- AV200 Powerline Ethernet Wall Mount F
- One standard CAT5 ethernet cable
- CD with documentation
- Quick Start Guide

### Product Specification

Product code: CXP-AV200-WME-F

<b>Standards Safety and EMI</b>	IEEE 802.3u, 802.1P, 802.1Q, FCC Part 15, EN 55022, CE Class B
<b>Speed</b>	Up to 200 Mbps on physical layer
<b>AC Plug Type</b>	US, EU, UK and AUS
<b>LED Status Lights</b>	Power on, PLC Link/Activity Ethernet link
<b>Configuration Buttons</b>	On, Standby, Config, Reset, Synchronization
<b>Interface</b>	10/100BaseT Fast Ethernet, Powerline
<b>Frequency Range used</b>	2 – 34 MHz
<b>Power Input</b>	100 to 240 V AC, 50/60 Hz
<b>Dimensions</b>	70.332 mm L x 73.66 mm W x 140.46 mm H
<b>Transmitted Power spectral density</b>	-58 dBm/Hz
<b>Power Consumption</b>	5 W
<b>Operating Temperature</b>	0° to 40°C (32°F to 104°F)
<b>Operating Humidity</b>	10% to 80% non-condensing

