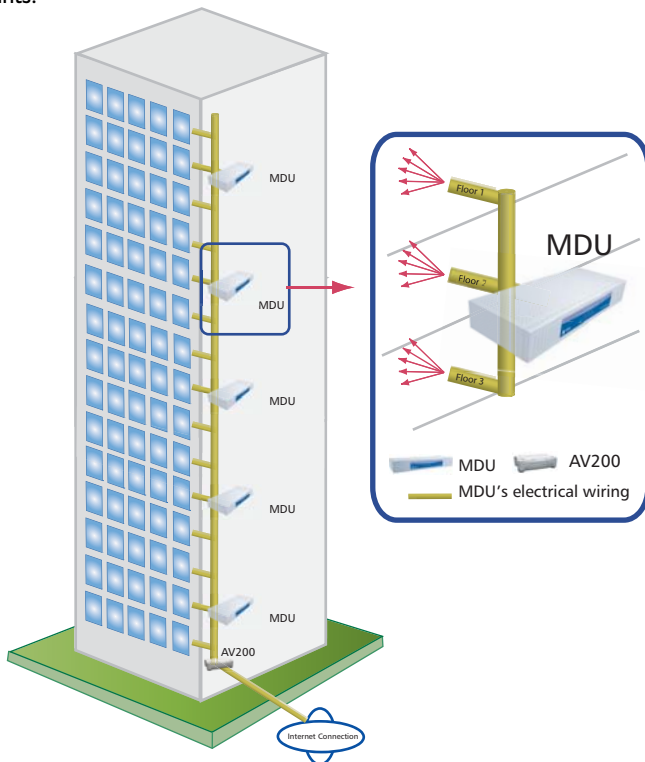# Corinex
AV200 MDU Gateway

The only 200 Mbps Powerline and Coax Solution for MDU's

Introducing the most powerful solution for delivering broadband access to every room in a Multi Dwelling Unit (MDU), the Corinex AV200 MDU Gateway. The 200 Mbps MDU Gateway allows distribution of broadband signals over existing electrical wiring or coax cabling within hotels, apartment buildings, hospitals, schools, and all other MDUs, every electrical or coax outlet in the MDU becomes a high-bandwidth connection. Corinex's AV200 powerline technology, based on the pre-UPA standard achieves data rates of up to 200 Mbps and propagates signals throughout an entire MDU, all without the need for pulling new wiring. Deployment of the Gateway is simple and fast, allowing Installers, System Integrators, and End Customers to deploy Internet Access, VoIP, and even Streaming Video in every room in an MDU in a few short days.

Built on the Corinex AV200 technology, the MDU Gateway can communicate with other Corinex AV200 devices such as the successful Corinex AV200 Powerline Ethernet Adapter, Corinex AV200 Powerline Router, and the Corinex AV200 CableLAN adapter. Deploying an AV200 powerline network in an MDU is simple – simply connect a single head-end AV200 modem to inject an MDU's Internet signal onto the powerlines or coax cables, connect one MDU Gateway every few floors, connect an AV200 modem in each room requiring broadband access – and you are done! The MDU Gateway is able to process signals so that even the most distant electrical or coax outlets will be able to serve as broadband connection access points.

Features

- Repeating: Extends the range of a network
- Segmentation: Allows an unlimited number of users
- Modularity: Optimizes performance while minimizing costs
- Management: Configures and Controls devices on the network

Technical description

Repeating

The MDU Gateway supports two different types of repeating depending on the customers needs, time division and frequency division. Time division repeating divides time into timeslots – in each timeslot the repeater either receives the data, or repeats them further to the network. Time Division repeating cannot send and receive data at the same time, however, if latency is a critical parameter (such as for video streaming), frequency division repeating can be used. Frequency division repeating allows one module within the gateway to receive data while a second module repeats the data. Each module operates in a different non-overlapping frequency band. Frequency Division repeating allows repeating of data with non-measurable latency.

Segmentation

A standard AV200 powerline or coax network is limited to 32 AV200 Powerline or CableLAN modems, in order to maintain peak performance. This maximum user limitation can be a problem in larger buildings, such as hotels, where up to 100 users or more may need to have internet access at the same time. The Corinex MDU Gateway's proprietary patent pending algorithms remove the maximum user limitation and allow an installer to use a virtually unlimited number of nodes in the powerline or coax network. Each MDU Gateway can act as a master modem for a powerline or coax network segment with 32 AV200 Powerline Ethernet or CableLAN Adapter nodes.

Modularity

Modularity is a critical advantage for installers using Corinex's unique AV200 MDU technology. A maximum of three AV200 powerline modules can be included in the gateway, allowing installers to optimize the cost and performance of AV200 powerline or coax networks in an MDU.

For simple gateways using time-division multiplexing for simply repeating the signal, only one powerline module is required. A more advanced device with two powerline modules can serve as a time-division repeater and a network segment master device simultaneously. Segments may be cascaded in order to allow as many users (or rooms) required for the installation. All three variants of the Corinex AV200 MDU Gateway can be combined in a network in order to minimize latency in the network. At the same time the three module gateway acts as a master device for a network segment. All three variants of the Corinex AV200 MDU Gateway can be combined in a network in order to create the highest performance, lowest cost powerline or coax network available for MDU's.

Management

The Corinex AV200 MDU Gateway and all other AV200 powerline or CableLAN products from Corinex can be easily configured using the Corinex AV200 Network Management software using SNMP. From monitoring and configuration to remotely accessing and controlling devices, Corinex's powerful GUI based management software gives network managers control of the network from any web enabled PC.

Technical Specifications

Hardware

Standards compliance	pre-UPA standard IEEE 802.3, IEEE 802.3u FCC and UL (US), CE (Europe)
Data rate	Powerline: up to 200 Mbps on physical layer Ethernet: 10/100 Mbps
Cabling Type	1 Ethernet cable AC power cord
LED Status Lights	POWER PLC1,Ethernet1, PlC2, Ethernet2, PLC3, Ethernet3 Switch1, Switch2, Swith 3
Interfaces	1-3 x Powerline port 1x Ethernet/ Debug / Configuration AC power connector for both Powerline networking and power supply
Electrical Parameters	Input Voltage: AC 100V~240V Line Frequency: 60/50Hz (USA/Europe)

Software

Supported OS (Setup Tool)	Windows 98, ME, 2000, XP Linux Mac OS X
Management	AV200 Network management software

Product Specifications

Product Code: CXP-MDU-GWY

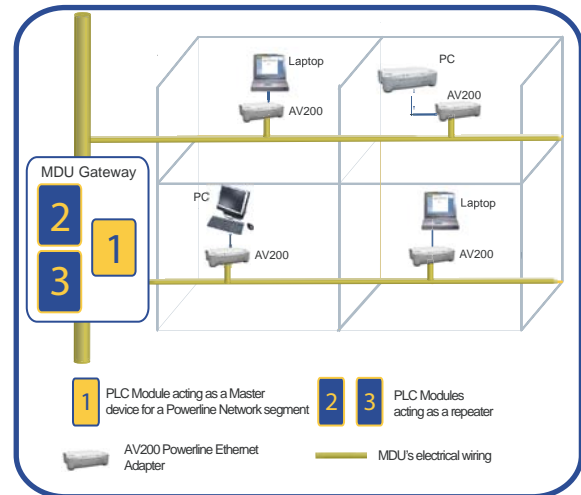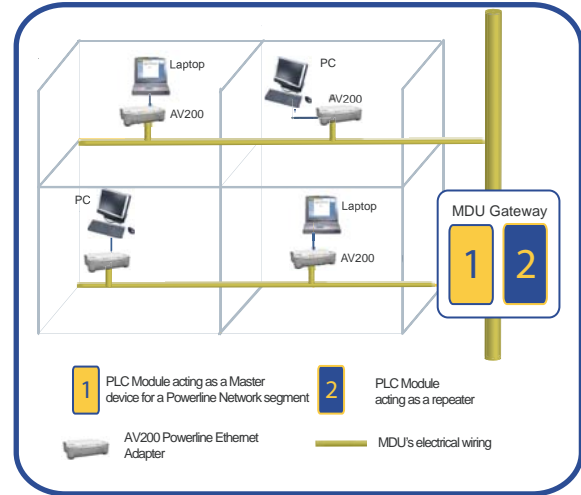Please refer to the Price List for the exact product code specification for your region.

Related products

The Corinex family of 200 Mbps AV products consists of:
• Corinex AV200 Powerline Ethernet Adapter
• Corinex AV200 CableLAN Adapter
• Corinex AV200 Powerline Router

Product Package Contents

• Corinex AV200 MDU Gateway
• CD with documentation
• Quick Start Guide

Products features and design may vary by version and region.

Video, Voice and Broadband Connectivity Solutions