ReadyLinks

IPcoax™ CEB-512M FTTH MDU HPNA v3.1 Coax Ethernet Bridge

Applications:

- Fiber to the Home Multiple Dwelling Units
- IP-based IPTV, Internet, VoIP over MDU coax
- Extends FTTH data speed into MDU using existing MDU coax wiring
- CEB-512M bridges interface easily with the IPcoax 1400/1410 and IPcoax 2400

Key Highlights:

- IPTV access to any coax outlet in Unit
- Fast Installation
- Dynamic Bandwidth Allocation
- 2 RJ-45 Ethernet Jacks
- Quality of Service and VLAN Termination
- HPNA 3.1 port on coax connection
- Status Indicator LED
- Local craft management using BONUS software
- Remote management of all CEB-512M HPNA units using ReadyView

The IPcoax CEB-512M Coax Ethernet Bridge enables IP-based voice, video and data services over existing Multiple Dwelling Unit coax wiring.

Flexible Method for Delivery of FTTH in MDUs

Fiber to the Home IP-based Triple Play Services are delivered to Multiple Dwelling Units via Gigabit Ethernet optical networks. To distribute IP-based services in the MDU, the Ethernet signals must be distributed to TV Set-top boxes, PCs and VoIP-enabled phones. Most MDUs are not wired with Cat5/6 Ethernet cables and the best alternative is to use the existing coax cabling in the MDU .

CEB-512M: The Ideal Solution for Utilizing Existing MDU Coax Wiring

- Instant IPTV access to any coax outlet without rewiring
- Fast, secure and reliable solution reduces installation time
- Dynamic bandwidth allocation optimizes throughput based on activity
- Quality of Service and VLAN termination and tagging
- Extends fiber optic data speed onto existing home wiring
- Compatible with existing RF off-air and CATV based systems
- Compatible with home entertainment systems such as Windows Media Center and Windows Media Center Extender

Open Standards Based

The IPcoax CEB-512M supports the HPNA v3.1 and ITU-T G.9954 standards for Ethernet over coax.

Rapid One Step Provisioning, Multiple Management Options

- Easy Plug and Play installation
- CEB-512M units can be tested locally with BONUS software
- ReadyLinks ReadyView™ Element Management System shows status of all CEB-512M units in the MDU and shows network performance statistics.

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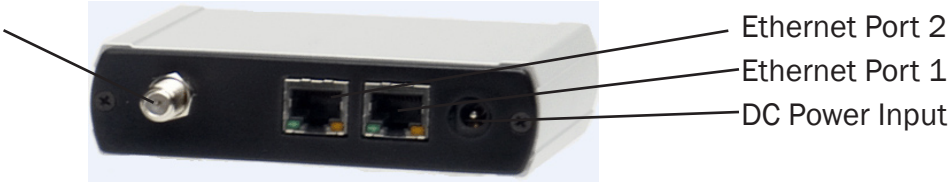
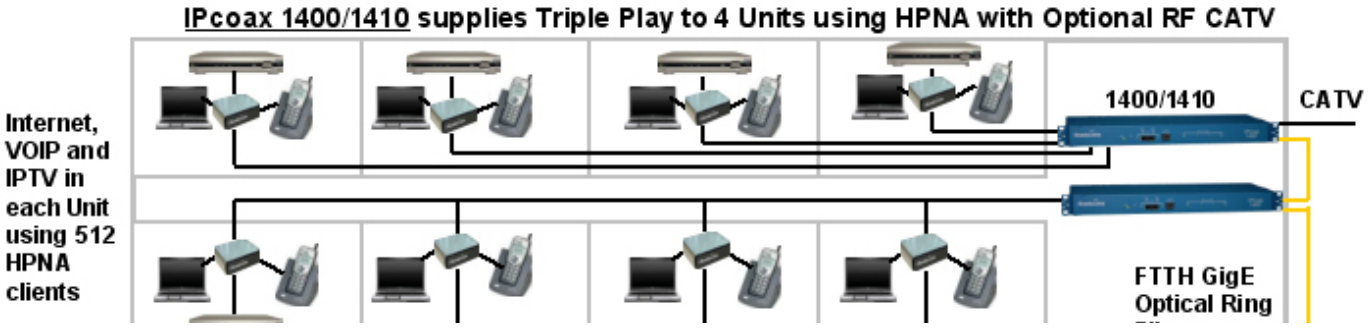
IPcoax CEB-512M Interfaces



IPcoax CEB-512M Deployment:



Specifications	
Environmental Specifications	
Operating Temperature, Storage Temperature	0 to 40° C, -25° C to 70° C
Input Voltage, Power Consumption	5 VDC @ 2 A, AC transformer 100-240V (50-60 Hz)
Humidity	10 to 90% non-condensing
Certifications	UL, CE, CUL, FCC Part 15 Class B, EMC 89/336/EEC, ICES-003
WAN and Service Ports	
HPNA 3 Connectivity	One (1) Coax Connector. Data rate: 110 Mbps Physical Layer with 90+ Mbps Effective. Frequency: 12 to 28 MHz
Ethernet Interface	Two 10/100 Ethernet RJ-45 ports, Automatic MDI/MDIX crossover for 100BASE-TX and 10BASE-T ports, High performance look-up engine with support for up to 2048 MAC address entries with automatic learning and aging. Full IEEE 802.1Q VLAN ID processing, dynamic VLAN membership and VLAN tagging selectable per port. Port-based VLANs supported in any combinations or 802.1Q VLAN support for up to 16 VLANs.
Compatibility	Standard CATV (Ch 2-130), VOD entertainment systems, Compatible with DOCSIS, Passive cable architecture
Modulation Type	Adaptive FDQAM and QAM, 2 to 16 Mbaud with 2-8 bit constellations
Robustness	High immunity to RF and impulse noise. Adapts to varying line conditions
Protocol Layer Features	Master-controlled and peer-to-peer, MAC protocol, Link-layer Control Protocol, Convergence Sublayer Bridging External Networks and Protocols, Local and Remote Management
Quality of Service	Negotiated QoS flow parameters between devices at the endpoints of a flow in order to establish buffering and channel (BER/PER) constraints. Contract between flow source device and Master constrains bandwidth, latency and jitter. Traffic classification - management, voice video and data
Standards Compliance	IEEE802.3, IEEE802.3u, IEEE802.x, IEEE802.1D, IEEE802.1Q VLAN ID, HPNA 3, ITU-T G.9954
Mechanical Specifications	
Dimensions, Weight	3.25”(L) x 4.25”(W) x 1.25”(H), (82.5mm x 108mm x 31.75mm), 0.5 lbs.

Note: specifications are subject to change. v1

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