

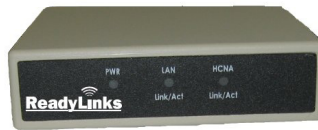
Applications:

- IP-based IPTV, Internet, VoIP over home coax
- Extends FTTH data speed into home using existing home wiring
- ReadyLinks HPNA bridges interface easily with RHINO or Generic FTTH Service Gateways or DSL Modems

Key Highlights:

- IPTV access to any coax outlet in home
- Fast Installation
- Dynamic Bandwidth Allocation
- Quality of Service and VLAN Termination
- HPNA 3 port on coax connection
- Status Indicator LEDs
- Remote management of in-house HPNA units

The CEB-422-M Coax Ethernet Bridge delivers up to 200Mbps of application service data throughput for voice, IPTV, video and data applications over existing home coaxial wiring. With physical speeds up to 320Mbps the carrier grade CEB-422-M offers the highest bandwidth and service performance in the industry.



CEB-411-L



CEB-422-M

Complemented by the ReadyLinks ReadyView™ management suite a service provider can offer end customer s value add service by managing the home network using centralized software. This allows end customer to “plug and play” the CEB installation resulting in the elimination of truck rolls for installation and fault management.

Coaxial IP triple Play service delivery in the home

- Plug and Play connectivity to FTTH terminals such as the ReadyLinks GiGE RHINO OSG™ and a variety of xDSL modems
- Home services include VoIP (SIP/MGCP), High Speed Internet Access (HSIA), and IP TV for HDTV, PVR, SDTV and high speed gaming applications
- Any to Any in home communications between HPNA bridges in a single family environment
- Secure and QoS for Multi-dwelling applications
- Programmable management of ports and services with full QoS features

To distribute IP-based services in the home the Ethernet signals must be distributed to TV Set-top boxes, PCs and VoIP-enabled phones. Most homes are not wired with Cat5/6 Ethernet cables. Therefore the best alternative is to use the existing coax cabling in the home.

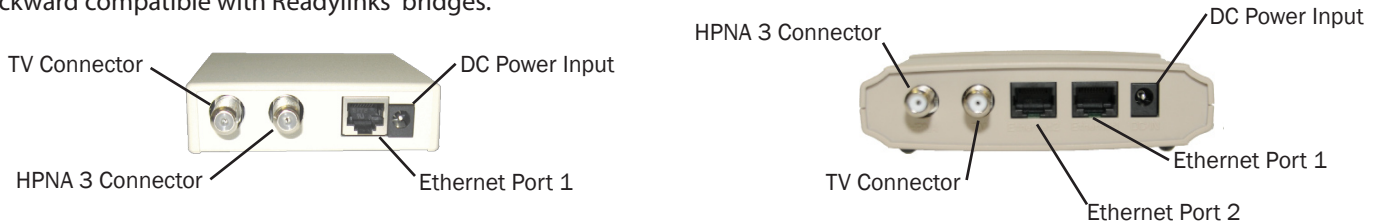
- Plug and Play installation and IP Triple play service turn up
- Fast, secure and reliable solution reduces installation time
- Dynamic bandwidth allocation optimizes throughput based on activity
- Quality of Service and VLAN termination and tagging
- Extends fiber optic bandwidth and xDSL data speed 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

Home Networking Management

- Remote management of CEB units in the home network reduces truck rolls.
- ReadyLinks ReadyView™, BONUS™ and IPC-1410 (CEB-422-M) software allows true home networking of devices by the service provider: Network discovery, configuration and provisioning of services, performance management, remote software download, and fault alarm reporting.

Open Standards Based

The CEB-411-L and CEB-422-M support the HPNA 3.0/3.1 and ITU-T G9954 standards for Ethernet over coax. In addition the CEB provides Ethernet compatibility with IEEE. In addition the CEB interoperates with all the major IP STB with integrated HPNA and is backward compatible with Readylinks bridges.



Feature	Catalog Number	
	CEB-411-L	CEB-422-M
Frequency	Low Band (4-20 MHz)	Mid Band Compatible (12-44 MHz)
Maximum Throughput	100 Mbps	200 Mbps
Compatible ReadyLinks Products	CEB-411-L, OSG-H	CEB-422-M, IPC-1410-M
Compatible ReadyLinks Legacy Products	CEB-402, SEB-401	CEB-402-M

Specifications	
Environmental Specifications	
Operating Temperature, Storage Temperature	0 to 40° C, -10° C to 65° C
Input Voltage, Power Consumption	7.5 VDC @ 1 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 Port	One (1) Coax Connector.
TV Port	One (1) Coax Connector.
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 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, passive cable architecture
Modulation Type	Adaptive FDQAM and QAM, 2 to 32 Mbaud with 2-10 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, ITU-T G.9954
Mechanical Specifications	
Dimensions, Weight	3.2"(L) x 4.6"(W) x 1.2"(H), (82mm x 116mm x 31mm), 0.5 lbs.

Note: specifications are subject to change. v1.3

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