

ReadyLinks Ethernet Bridge

(Coax or Phonenumber)



HPNA v3 bridge enables voice, video and data applications over existing home 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 network activity
- Quality of Service provides the capability to host internet data traffic along with digital video and voice services
- Wide dynamic range provides long distance coverage
- Extends fiber optic data speed onto existing home wiring
- Compatible with existing RF off-air and CATV based systems
- Coax or telephone options available for either Ethernet or USB connectivity

Technical Specifications

Data Rate:

- 128 Mbps Physical Layer
- 90+ Mbps Effective

Frequency :

- Fc = 15 MHz +/- 11 MHz

Compatibility:

- Standard CATV (Ch 2–130)
- VOD entertainment systems
- Passive cable architecture

Standards:

- IEEE802.3, IEEE802.3u, IEEE802.x, IEEE802.1D and IEEE802.1Q VLAN ID
- HPNA v3.0

Quality of Service (QoS):

- 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 requirements.
- Traffic classification—management, voice, video and data

Modulation Type:

- Adaptive FDQAM and QAM
- 2 to 16 Mbaud with 2-8 bit constellations

Robustness:

- High immunity to RF and impulse noise
- Adaptable to varying line conditions

Protocol Layer Features:

- Master-controlled & peer-to-peer
- MAC protocol
- Link-layer Control Protocol
- Convergence Sublayer Bridging External Networks and Protocols
- Local and Remote Management

Ethernet Interface:

- 1 - RJ45 10/100BASE-TX port (CEB/TEB-401)
- 2 - RJ45 10/100BASE-TX port (CEB/TEB-402)
- Automatic MDI/MDIX crossover for 100BASE-TX and 10BASE-T ports
- Port-based VLANs supported in any combination or 802.1Q VLAN support for up to 16 VLANs

Coaxial Interface:

- 1 - Coaxial female (CEB)

Telephone Interface:

- 2 - RJ11 jacks - one for phone line and one telephone (TEB)

USB Interface:

- 1 - USB Type B jack (CUB/TUB)

LEDs:

- Transmit /Receive (RJ45)
- 10/100 Network speed(RJ45)
- Power on indicator (front panel)
- HPNA Link indicator (front panel)

Power Input:

- AC 100–240V (50/60 Hz)
- DC 5VDC @ 1 A

Operating Temperature:

- 0° C to 40° C (32° F to 104° F)

Storage Temperature:

- -25° C to 70° F (-13° F to 158° F)

Humidity:

- 10% to 90% non-condensing

Compliance:

- FCC part 15, EMC 89/336/EEC, ICES-003
- UL, CUL, CE

Configuration Options:

- CEB-401 Coax Ethernet Bridge 1 port
- CEB-402 Coax Ethernet Bridge 2 port
- TEB-401 Phone Ethernet Bridge 1 port
- TEB-402 Phone Ethernet Bridge 2 port
- CUB-401 Coax USB Bridge

Note: specifications subject to change

Rev. B