



let's make it **easy**

Channel-Bonding eMTA

Overview

The Ubee eMTA is a Pre-DOCSIS 3.0 channel-bonding. It offers unmatched data rates of up to 126Mbps in the downstream direction and supports IPv6. In addition to allowing PCs to share an Internet connection, the Ubee eMTA has FXS port enabling end users to use their existing analog telephones with VoIP phone service. It is an ideal solution for home or SOHO users to enjoy broadband multimedia services such as interactive gaming, video streaming, and real-time audio easier and faster than ever before.



Key Features & Benefits

- **High Data Rate**

Pre-DOCSIS 3.0 channel-bonding cable modem that is backward compatible with DOCSIS 1.0/1.5/2.0 standards. Offers higher data transfer rates of up to 126 Mbps downstream.

- **Money Saving**

Reduces phone bills with VoIP phone service that often is flat rate for unlimited local and long distance calls. The VoIP service is compatible with PacketCable 1.0/1.5 standard and provides secure/basic/hybrid provisioning-flow and voice/signaling security.

- **QoS**

Robust Quality of Service implementation that allows different services to be classified by 4 SSIDs and prioritized by WiFi Media Management (WMM) technology.

- **Easy to Use**

Universal Plug and Play (UPnP) makes it easy to use your computers and other client devices. The Ubee Cable eMTA offers you the choice of Ethernet or USB connectivity and easy installation. The conveniently located LED status indicators let you quickly check the modem's status and activity.

Product Specifications

Interface

- Cable : F-Connector, Female
- LAN: 1 10/100 Mbps RJ-45 ports
- 1 FXS RJ-11 ports
- 1 USB 2.0 Port

DOSIS Standard

- Pre-DOCSIS 3.0 support
- DOCSIS 1.0/ 1.1/2.0 Compatible

Downstream

- Frequency Range: 88MHz ~ 1GHZ
- Modulation: 64 / 256 QAM
- Maximum Data Rate*:
 - 90Mbps/sec (64QAM)
 - 126 Mbps/sec (256QAM)
- Symbol Rate: 5.057/5.361/Msymbols/sec
- RF Input/Output Power:
 - 17 to +15dBmV (64 QAM)
 - 15 to +17dBmV (256 QAM)
- Input Impedance: 75 Ω
- Channel Bandwidth: 6 or 8 MHz

Upstream

- Frequency Range: 5MHz ~ 65MHz
- Modulation:
 - A-TDMA: QPSK, 8, 16, 32, 64QAM
 - S-CMDA: QPSK, 8, 16, 32, 64, 128QAM
- Maximum Data Rate*:
 - 0.32 ~ 10.24Mbps (QPSK)
 - 0.64 ~ 20.48Mbps (16QAM)
 - 0.96 ~ 30.72Mbps (64QAM)
- Symbol Rate:
 - 160, 320, 640, 1280, 2560, 5120 Ksymbols/sec
- RF Input/Output Power A-TDMA:
 - 8dBmV ~ + 58dBmV(QPSK)
 - 8dBmV ~ + 55dBmV(QAM)

VOIP Features

- MGCP compliance
- DTMF Tone Detection
- T.38 FAX Relay (G.711)
- Echo Cancellation (G.168) /Silence Suppression
- Voice Active Detection and Comfort Noise Generation

Network Management

- Web-based configuration
- Telnet remote management
- Firmware upgrade via TFTP
- Configuration backup and restore
- SNMP support

Physical Specifications

- Dimensions: 155.5(W) x 230.5(D) x 31.5(H) mm
- Weigh: 500g
- Power: 15V/1.3A

Environment Conditions

- Operating temperature: 0°C ~ 40°C
- Humidity: 5-95% (non-condensing)

Certifications

- CE/ FCC Class B

*Actual speeds will vary based on factors including network configuration and speed

Application Diagram



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