



let's make it **easy**

Channel-Bonding **Data Modem**



Overview

The Ubee Channel-Bonding Data Cable Modem is compatible with the latest Pre-DOCSIS 3.0 which offers unmatched data rates of up to 126Mbps in the downstream direction. With downstream channel-bonding feature, the downstream bandwidth is 3 times faster than DOCSIS 2.0/Euro DOCSIS 2.0 providing far greater downstream capacity than ever before.

Key Features & Benefits

- **High Data Rate**

The Pre-DOCSIS 3.0 channel bonding cable modem that is backward compatible with DOCSIS 1.0/1.1/2.0 standards . Offers higher data transfer rates of up to 126 Mbps downstream.

- **Robust Security**

Baseline Privacy (BPI) provides cable modem users with data privacy across the RF network. It provides user data privacy by encrypting traffic flows between CM and CMTS. To provide strong protection against theft of service, the CMTS would need to authenticate client CMs: the CMTS would need to establish a unique, verifiable identity for a cable modem and authenticate key requests claiming to be from that cable modem.

- **QoS**

The access control is variable length packet based DOCSIS MAC protocol with contention and reservation slots. The QoS (Quality of Service) will guarantee the bandwidth allocation and latency with dynamic service establishment.

- **Easy to Use**

Universal Plug and Play (UPnP) makes it easy to use your computers and other client devices. The Ubee data cable modem 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 port

DOSIS Standard

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

Downstream

- Frequency Range: 88MHz ~ 860MHz
- Modulation: 64 / 256 QAM
- Maximum Data Rate*:
 - 90 Mbits/sec (64QAM)
 - 126 Mbits/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 ~ 42MHz
- Modulation:
 - A-TDMA: QPSK, 8, 16, 32, 64QAM
 - S-CMDA: QPSK, 8, 16, 32, 64, 128QAM
- Maximum Data Rate*:
 - 0.32 ~ 10.24Mbits (QPSK)
 - 0.64 ~ 20.48Mbits (16QAM)
 - 0.96 ~ 30.72Mbits (64QAM)
- Symbol Rate:
 - 160, 320, 640, 1280, 2560, 5120 Ksymbols/sec
- RF Input/Output Power A-TDMA:
 - 8dBmV ~ + 58dBmV(QPSK)
 - 8dBmV ~ + 55dBmV(QAM)
 - 8dBmV ~ +54dBmV (32/64)

IP Management

- DHCP Client

Network Management

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

Physical Specifications

- Dimensions: 127(W) x 122(D) x 32(H) mm
- Weigh: 150g
- Power: 10V/1.2A

Environment Conditions

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

Certifications

- CE
- FCC Class B
- Withstand 8KV test voltage of electrostatic discharge under operational conditions.

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



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