



## Ubee DOCSIS 3.0

### Voice (eMTA and eDVA) Cable Modem

Model: **DVM3203B**

#### DVM3203B Device Highlights



**High Speed** — The DVM3203B delivers increased bandwidth for subscribers' multimedia and high-bandwidth applications (up to 343Mbps downstream, 122Mbps upstream).\*



**Voice (eMTA)** — The DVM3203B offers two analog telephone connections, coupling subscriber telephony with a high-speed cable modem in one device. Battery backup ensures high availability in power outages.



**Network Interface** — 10/100/1000 Ethernet interface provides compatibility and performance. IPv4 and IPv6 support enables increased address capacity and improved security.

DVM3203B Voice Cable Modem



#### Overview

Ubee introduces the **DVM3203B Voice (eMTA and eDVA) Cable Modem**. The DVM3203B is well suited for mass subscriber deployment combining high-end data throughput with subscriber telephony. This device is targeted for residential subscribers, small businesses, and Small Office/Home Office (SOHO) customers. Additional features include:

- ❑ **Speeds and Compatibility** — The DVM3203B offers high-tier connection speeds provided by DOCSIS 3.0 channel bonding. Eight downstream and four upstream channels offer data rates of 343Mbps and 122Mbps respectively.\* The on-board Gigabit Ethernet port takes advantage of these speeds, but the DVM3203B is also backwards compatible with 10/100 Ethernet and DOCSIS 1.x/2.0 standards.
- ❑ **QoS** — The DVM3203B Quality of Service (QoS) features enable traffic prioritization for delay-sensitive multimedia services and applications.
- ❑ **Cost** — Compared to all devices in this class, the reliability and overall deployment costs of the DVM3203B are among the most competitive in the industry.

#### Let's Make It Easy

Combined with world-class engineering and manufacturing, Ubee's core principle is to make it easy to work with our products. Through the entire lifecycle of our devices—from implementing requirements, staging, and deployment, to operational support and the user experience—Ubee makes it easy. Contact a Ubee Product Specialist for more information on the **DVM3203B Voice (eMTA and eDVA) Cable Modem**.

\*Actual speeds will vary based on factors including network configuration and service tier.

let's make it *easy*

# DVM3203B Product Specifications

## Interfaces & Standards

- Cable: F-Connector, Female
- LAN: 1 10/100/1000Mbps RJ45 Port
- 2 RJ11 ports (telephony), PacketCable1.5/ 2.0 Compatible
- DOCSIS 3.0/Euro DOCSIS 3.0 Certified, DOCSIS/Euro DOCSIS 1.0/ 1.1/2.0 Certified
- CE/ FCC Class B

## Downstream\*

- Frequency Range: 88MHz ~ 1002MHz
- Modulation: 64 / 256 QAM, Channel B/W: 6 MHz
- Maximum Data Rate per Channel (up to 8 channels): DOCSIS = 30 Mbps (64 QAM), 42 Mbps (256 QAM), EuroDOCSIS = 41 Mbps (64 QAM), 55 Mbps (256 QAM)  
Total Max Bandwidth (8 Channels): DOCSIS = 343 (304) Mbps, EuroDOCSIS = 444 (400) Mbps
- Symbol Rate: 6952 Ksps, RF Input Power: -15 to +15dBmV (64, 256 QAM), Input Impedance: 75

## Upstream\*

- Frequency Range: 5MHz ~ 65MHz
- Modulation A-TDMA: QPSK, 8, 16, 32, 64QAM, S-CMDA: QPSK, 8, 16, 32, 64, 128QAM
- Max B/W of 4 Channels = 122.88 (108) Mbps, B/W Per Channel (up to 4 channels) = [QPSK 0.32 ~ 10.24 Mbps, 8 QAM 0.48 ~ 15.36 Mbps, 16 QAM 0.64 ~ 20.48 Mbps, 32 QAM 0.80 ~ 25.60 Mbps, 64 QAM 0.96 ~ 30.72 Mbps, 128 QAM/TCM 30.72 Mbps]
- Symbol Rate: 160, 320, 640, 1280, 2560, 5120 Ksps
- RF Output Power: TDMA/ATDMA: +8dBmV to +54dBmV (32/64 QAM). ATDMA Only: +8dBmV to +55dBmV (8/16 QAM), +8dBmV to +58dBmV (QPSK). S-CDMA: +8dBmV to +53dBmV (all modulations)

\*Actual speeds vary based on factors including network configuration and service tier.

## Voice & Network

- MGCP 1.0 / NCS 1.0
- Ring Voltage: 270 VAC, pk-pk (tip-ring)
- Line Voltage Onhook: -48 Volts
- Loop Current: 20mA / 41mA
- Ring Capability: 2K ft., 5REN
- Hook State: Signaling Loop start, DTMF Tone Detection, T.38 FAX Relay (G.711), HD Voice (G.722), Echo Cancellation (G.168) / Silence Suppression, Voice Active Detection and Comfort Noise Generation
- DHCP Client/Server
- Ethernet 10/100/1000 BaseT, full-duplex auto-negotiate functionality, IPv4 and IPv6 support

## Device Management

- DOCSIS, Packet Cable Configuration File
- Web-Based Configuration
- Configuration Backup and Restore
- Secure Firmware Upgrade via TFTP
- Configuration Backup and Restore
- Support of SNMP v1/v2c and v3 Coexistence
- Interoperability with Main CMTS Products
- Multiple Provisioning Methods
- Support for Various Packetization Rates

## Physical and Environmental

- Dimensions: 241 x 185 x 45 (W x D x H mm)
- Weight: 500 g
- Power: 100-120 Vac 50/60Hz, 0.5A Max
- Operating Temperature: 0°C ~ 40°C
- Humidity: 5~95% (non-condensing)

