



Ubee™ DOCSIS 3.0

8 x 4 Cable Modem

Model: **DDM3521**

DDM3521 Device Highlights



Performance — The DDM3521 DOCSIS 3.0 certified cable modem delivers the bandwidth to support subscribers' multimedia and high-bandwidth applications with up to 343 Mbps downstream* and 122 Mbps upstream.*



Deployment — The DDM3521 is well suited for large subscriber deployments, providing simplified installation, operations, diagnostics, and supportability.



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



DDM3521 Cable Modem

Overview

Ubee introduces the DDM3521 8 x 4 Cable Modem, a subscriber bridge device providing cable-based internet access to the home. With eight downstream channels and four upstream channels, the DDM3521 can be bonded virtually, allowing operators to deliver significant speed increases to subscribers.

- ❑ **Gigabit Ethernet** — The **DDM3521 Cable Modem** provides a Gigabit Ethernet port with LAN speeds that take advantage of the higher speed tiers offered by DOCSIS 3.0. The DDM3521 10/100/1000M auto-negotiation capabilities make it compatible with 10M Ethernet, 100M Fast Ethernet, and GigE.
- ❑ **DOCSIS 3.0/2.0/1.x Certified and Compatible** — The **DDM3521 Cable Modem** is DOCSIS 3.0 certified and fully backwards compatible with DOCSIS 1.x/2.0 standards. The DDM3521 has a built-in 1GHz downstream tuner allowing operators to increase the frequency spectrum and enable new services.
- ❑ **Usability** — Subscribers can easily determine the status of their DDM3521, including if channel bonding and Gigabit Ethernet is enabled. Bright, dual-colored LEDs with intuitive icons indicate single or bonded channels and Ethernet speed:
 - ❖ DS/US LEDs are GREEN in single channel mode, BLUE when using bonded channels
 - ❖ Ethernet LED is GREEN if connected at 10/100 Mbps, BLUE if connected at 1000 Mbps (GigE)

*Maximum Speeds (actual speeds vary based on factors such as network configuration, conditions, and service tier).

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 life cycle 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 **DDM3521 Cable Modem**.

let's make it *easy*

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DDM3521 Product Specifications

Interfaces & Standards

- ❖ RF Interface: External F-Connector
- ❖ CPE Interface: 10/100/1000 Base Ethernet
- ❖ DOCSIS 3.0/2.0/1.x Certified

Downstream*

- ❖ Frequency Range: 88 MHz ~ 1002 MHz
- ❖ Modulation: 64 / 256 QAM
- ❖ Maximum Data Rate 8 DS: 343 Mbps
- ❖ RF Input/Output Power: -15 to +15 dBmV
- ❖ Input Impedance: 75 Ω
- ❖ Channel Bandwidth: 6 MHz

Upstream*

- ❖ Frequency Range: 5 MHz ~ 42 MHz
- ❖ Modulation: QPSK, 8, 16, 32, 64 QAM, 128 QAM (S-CDMA only)
- ❖ Maximum Data Rate 4 US: 122 Mbps
- ❖ RF Output Power: TDMA /ATDMA:
+8 to +54 dBmV (32QAM, 64QAM ATDMA only)
+8 to +55 dBmV (8QAM, 16QAM)
+8 to +58 dBmV (QPSK)
S-CDMA: +8 to +53 dBmV (all modulations)

Device Management

- ❖ Local and Remote Web Management Interface
- ❖ Telnet Remote Management
- ❖ SNMP v1/v2/v2c and v3 agent built-in
- ❖ IPv4 and IPv6 support

Physical and Environmental

- ❖ Dimensions: 6.7" W x 6" D x 1.75" H (170 mm x 152 mm x 44 mm)
- ❖ Input Power: 100-120VAC, 50-60Hz
- ❖ Output Power: 12V @ 1.0A
- ❖ Power Consumption: < 10W (full load)
- ❖ LEDs: Power, Ethernet, US, DS, Ready
- ❖ Operating temp: 0° C to 40° C (32° F to 104° F)
- ❖ Humidity: 5~95% (non-condensing)
- ❖ Storage temp: -40° C to 70° C (-40° F to 158° F)

Certifications

- ❖ Safety: UL 60950; CE/FCC Class B
- ❖ Others: RoHS, WEEE

*Maximum Speeds (actual speeds vary based on factors such as network configuration, conditions, and service tier).

Application Diagram

