



Ubee™ DOCSIS 3.0

Cable Modem

Model: **DDM3513**

## DDM3513 Device Highlights



**Performance** — Enabled by DOCSIS 3.0, the DDM3513 delivers the bandwidth to support subscribers' multimedia and high-bandwidth applications (up to 171Mbps downstream, 122Mbps upstream).\*



**Deployment** — The DDM3513 is well suited for large subscriber deployment, 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.



DDM3513 Cable Modem

## Overview

Ubee introduces the **DDM3513 Cable Modem**, a subscriber bridge device providing cable-based internet access to the home. The DDM3513 provides four upstream and four downstream channels that can be bonded virtually, allowing operators to deliver significant speed increases to subscribers (171Mbps downstream and 122Mbps upstream).\*

### Additional features include:

- ❑ **Gigabit Ethernet** — The **DDM3513 Cable Modem** provides a Gigabit Ethernet port with LAN speeds that take advantage of the higher speed tiers offered by DOCSIS 3.0. The DDM3513 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 **DDM3513 Cable Modem** is DOCSIS 3.0 certified and fully backwards compatible with DOCSIS 1.x/2.0 standards, as well. The DDM3513 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 DDM3513, including if channel bonding and Gigabit Ethernet is enabled, through dual-colored LEDs.

\*Actual speeds vary based on factors including 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 **DDM3513 Cable Modem**.

let's make it *easy*

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# DDM3513 Product Specifications

## Interfaces & Standards

- RF Interface: External F-Connector
- CPE Interface: 10/100/1000 Base Ethernet RJ45
- DOCSIS 3.0/2.0/1.x Certified

## Downstream\*

- Frequency Range: 88 MHz ~ 1002 MHz
- Modulation: 64 / 256 QAM
- Maximum Data Rate 4 DS: 171 Mbps (152 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 (108 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)

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

## 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: (8.44" (W) x 6.48"(D) x 1.69" (H)
- Power: 12V/1A Energy Star V
- Power Consumption: < 10W (full load)
- Input Power: 100-120VAC, 50-60Hz
- 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

## Application Diagram

