



Ubee™ DOCSIS 2.0

Wireless Cable Modem and Router for Commercial & Residential Model: **DDW262**

DDW262 Device Highlights



Convergence — The DDW262 Wireless Cable Modem and Router is designed to support both commercial and residential users using the same device. By blending wireless networking and Ethernet LAN in one device, the DDW262 reduces operational expenditures (OPEX) for the MSO.



Advanced Wireless and Voice — The DDW262 provides a maximum of 4 SSIDs that offer considerable flexibility for the customer's wireless network.



Security — The DDW262 delivers the latest security authentication and encryption standards to prevent unauthorized access to the wireless network. These include WPA/WPA2, WPS, and SPI Firewall.



Network Interface — Four 10/100 Ethernet interfaces provide compatibility and performance. IPv4 and IPv6 support enables increased address capacity and improved security.

Overview

Ubee's market leadership in wireless technology is further demonstrated with the introduction of the DDW262 Wireless Cable Modem and Router. The DDW262 is specifically designed for MSOs that want to use one device to service both their commercial and residential wireless customers. The device combines a cable modem, router, firewall, four Ethernet ports, and 802.11b/g/n wireless speeds. Features include:

- ❑ **QoS** — The DDW262 quality of service (QoS) features enable traffic prioritization for delay-sensitive multimedia services and applications.
- ❑ **Power Savings** — The DDW262 uses WMM Power Save technology that interacts with connected wireless clients prompting them to doze and save power whenever possible. For example, the DDW262 buffers downlink data until the client awakes.
- ❑ **Cost** — By leveraging the latest developments in technology, significant efficiencies in power conservation and design are achieved making the DDW262 a leader in converged services, product reliability, performance, and value. With just one device needed to service both commercial and residential wireless customers, operational costs of ownership for MSOs are significantly less than supporting multiple CPE devices.

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 **DDW262 Wireless Cable Modem and Router**.



DDW262 Wireless Cable Modem and Router

let's make it *easy*

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DDW262 Wireless Cable Modem and Router Product Specifications

Interfaces & Standards

- Cable: F-Connector, female
- Antenna: 1 detachable antenna
- DOCSIS 2.0/1.1/1.0 compliant
- Network Interfaces: 4 10/100Mbps RJ-45 ports
- Power supply: FCC/UL certified, ENERGY STAR® compliant



Downstream*

- Frequency Range: 88MHz ~ 860 MHz
- Modulation: 64/256 QAM
- Channel Bandwidth: 6 MHz
- Maximum Data Rate: 30Mbps (64QAM), 42.8Mbps (256QAM)
- RF Input/Output Power: -15 to +15 dBmV
- Input Impedance: 75 Ω
- Symbol Rate: 5.057/5.361/M symbols/sec

Upstream*

- Frequency Range: 5 MHz ~ 42 MHz
- Modulation A-TDMA: QPSK, 8, 16, 32, 64QAM. S-CMDA: QPSK, 8, 16, 32, 64, 128QAM. TDMA: QPSK, 16QAM
- Maximum Data Rate: 0.32 ~ 10.24Mbits (QPSK: 4QAM), 0.64 ~ 20.48Mbits (16QAM), 0.96 ~ 30.72Mbits (64QAM)
- 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)
- Symbol Rate: 160, 320, 640, 1280, 2560, 5120 Ksps

Device Management

- Uses WMM Power Save technology (also known as UAPSD) to efficiently manage the power of wireless devices
- Supports local or remote management via Telnet, HTTP, SNMP, VSIF, and SSH

Security, Wireless, Network

- VPN pass-through and VPN end-point (IPSec/L2TP/PPTP)
- IEEE 802.11e Wi-Fi Multimedia (WMM)
- NAT Firewall, MAC/IP/Port filtering, parental control, stateful packet inspection (SPI), DoS attack protection, WPS/ WPA/ WPA2/ WPA-PSK & 64/128-bit WEP encryption
- Maximum of 4 SSIDs
- 802.11b/g/n compliant with wireless link speeds up to 65 Mbps*
- WiFi single band (2.4GHz)
- DHCP client/server & static IP network assignment, RIPv1/ v2, Ethernet 10/100/BaseT, full-duplex auto-negotiate functionality, IPv4 and IPv6
- TACAS and RADIUS authentication

Physical and Environmental

- Dimensions: 7.75in(w) x 5.4in(h) x 1.4in(d)
- Power Consumption: Maximum 8W
- Power Supply: ENERGY STAR® compliant 12V @ 1.0A
Input Power: 100-120VAC, 50-60Hz, or 200-240VAC, 50-60 Hz
- Operating Temperature: 0°C ~ 40°C (32°F to 104°F)
Humidity: 5~95% (non-condensing)

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

