Ubee™ DOCSIS 3.0 Wireless Cable Modem Gateway

Model: **DDW3611**

DDW3611 Device Highlights

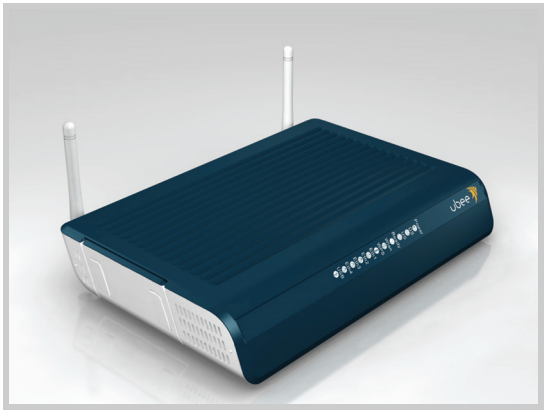
High Speed — The DDW3611 delivers increased bandwidth for subscribers' multimedia and high-bandwidth applications (up to 342Mbps downstream, 122Mbps upstream).*

Advanced Wireless — The DDW3611 provides 4 SSIDs that offers considerable flexibility for the customer's network. MSOs can reserve SSIDS for hotspots, Wi-Fi Federation support, guest access, and other applications.

Security — The DDW3611 delivers the latest security authentication and encryption standards to prevent unauthorized access to the wireless network. These include WPA/WPA2, WPS, SPI Firewall.

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

DDW3611 Wireless Cable Modem Gateway



Overview

Ubee introduces the DDW3611 Wireless Cable Modem Gateway. The DDW3611 is well suited for mass subscriber deployment delivering excellent wireless coverage with increased data throughput. This device is targeted for residential subscribers, small businesses, and Small Office/Home Office (SOHO) customers. Along with the features highlighted to the left, additional features include:

- **Speeds and Compatibility** — By supporting Gigabit Ethernet and 802.11n, the DDW3611 offers LAN and wireless speeds that take advantage of higher speed tiers offered by DOCSIS 3.0. Further, the DDW3611 is fully backwards compatible with 10/100 Ethernet, 802.11b/g wireless, and DOCSIS 1.x/2.0 standards.
- **QOS** — The DDW3611 Quality of Service (QoS) features enable traffic prioritization for delay-sensitive multimedia services and applications.
- **Power Savings** — The DDW3611 supports UAPSD power savings. UAPSD interacts with connected wireless clients prompting them to doze and save power whenever possible. The DDW3611, for example, buffers downlink data until the client awakes.
- **Cost** — Compared to all devices in this class, the reliability and overall deployment costs of the DDW3611 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 DDW3611 Wireless Cable Modem Gateway.

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

let's make it easy

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DDW3611 Product Specifications

Interfaces & Standards

- Cable: F-Connector, Female
- LAN: 4 10/100/1000 Mbps RJ-45 Ports
- USB: 1 USB 2.0 Port
- DOCSIS 3.0/Euro DOCSIS 3.0 certified
- DOCSIS/Euro DOCSIS 1.0/ 1.1/2.0 certified
- CE/ FCC Class B

abg Wi Fi n CERTIFIED®

dual-stream n

Downstream*

- Frequency Range: 88MHz ~ 1002MHZ
- Modulation: 64 / 256 QAM
- Channel Bandwidth: 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 QAM), -15 to +15dBmV (256 QAM)
- Input Impedance: 75 Ω

Upstream*

- Frequency Range: 5MHz ~ 65MHz
- Modulation A-TDMA: QPSK, 8, 16, 32, 64QAM, S-CMDA: QPSK, 8, 16, 32, 64, 128QAM
- Max Bandwidth 4 Channels = 122.88 (108) Mbps, Bandwidth 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)

Security

- VPN pass-through and VPN end-point support (IPSec/L2TP/PPTP)
- NAT firewall, MAC/IP/port filtering, parental control
- Stateful packet inspection (SPI), DoS attack protection
- WPS, WPA, WPA2, WPA-PSK, and 64/128-bit WEP encryption
- TACACS or RADIUS authentication

Wireless and Network

- Supports 4 SSIDs, 802.11b/g/n compliant with link speeds up to 300 Mbps
- DHCP client/server & static IP network assignment
- RIPv1/ v2
- Ethernet 10/100/1000 BaseT, full-duplex auto-negotiate functionality, IPv4 and IPv6 support

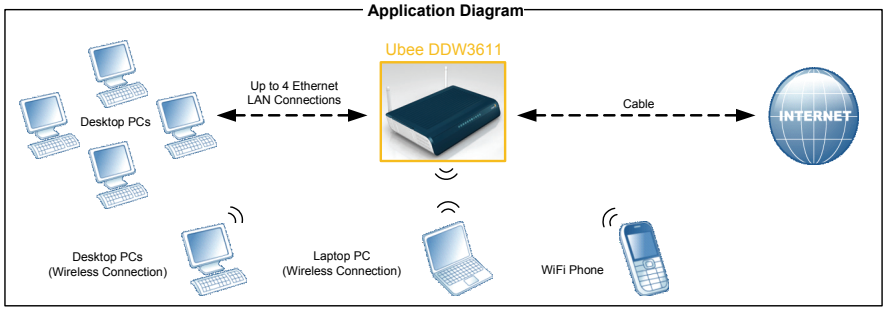
Device Management

- Supports IEEE 802.11e Wi-Fi Multimedia (WMM) and UAPSD (power savings)
- DOCSIS, web-based, and XML configuration
- Telnet remote management
- Firmware upgrade via TFTP
- Configuration backup and restore
- SNMP support

Physical and Environmental

- Dimensions: 172.2(W) x 254(D) x 42(H) mm
- Weight: 500 g
- Power: 12V/1.5A
- Operating temperature: 0°C ~ 40°C
- Humidity: 5~90% (non-condensing)

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



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