



Ubee™ DOCSIS 3.0

Advanced Wireless Voice Gateway

Model: DVW3201B

DVW3201B Device Highlights



High Speed — The DVW3201B delivers increased bandwidth for subscribers' multimedia and high-bandwidth applications (up to 343Mbps downstream, 122Mbps upstream).*



Advanced Wireless — The DVW3201B provides 4 SSIDs that offers considerable flexibility for the customer's network. MSOs can reserve SSIDs for hotspots, guest access, and other applications.



Security — The DVW3201B 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 — 4 10/100/1000 Ethernet interfaces provide high speed LAN capability. IPv4 and IPv6 support enables increased address capacity and improved security.



Voice — The DVW3201B offers two analog telephone connections. The optional battery delivers maximum uptime during unplanned events, such as power failures.



DVW3201B Advanced Wireless Voice Gateway

Overview

Ubee introduces the DVW3201B Advanced Wireless Voice Gateway. The DVW3201B blends high-speed LAN capabilities with the convenience of wireless networking, and analog telephony in one device. The DVW3201B is well suited to deliver multiple networking capabilities to the contemporary demands of residential and Small Office/Home Office (SOHO) subscribers. The DVW3201B reduces operational expenditure (OpEx) by eliminating the need for multiple devices in the home/office or the MSO warehouse. Additional features include:

- ❑ **Speeds and Compatibility** — By supporting Gigabit Ethernet and 802.11n combined with DOCSIS 3.0, the DVW3201B offers higher LAN and wireless speeds. The DVW3201B is also fully compatible with 10/100 Ethernet and previous 802.11 and DOCSIS versions.
- ❑ **QoS and Other Features** — The DVW3201B Quality of Service (QoS) features enable traffic prioritization for delay-sensitive multimedia services and applications. The DVW3201B also supports Firefly Media Server, iTunes Server, and DLNA auto-discovery.
- ❑ **Power Savings** — The DVW3201B is Energy Star compliant and supports UAPSD power savings. UAPSD interacts with connected wireless clients prompting them to doze and save power when possible. The DVW3201B, for example, buffers downlink data until the client awakes.
- ❑ **Customization** — The DVW3201B's firmware can be customized to meet individual customer requirements.

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 DVW3201B Advanced Wireless Voice Gateway.

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



let's make it easy

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DVW3201B Product Specifications

Interfaces & Standards

- DVW3201BCable: F-Connector, Female, USB: 1 USB 2.0 Host Port
- LAN: 4 10/100/1000 Mbps RJ-45 Ports
- 2 RJ-11 ports (telephony), PacketCable1.5 Certified, PacketCable 2.0 Compliant
- DOCSIS 3.0/Euro DOCSIS 3.0 Certified
- DOCSIS/Euro DOCSIS 1.0/ 1.1/2.0 Certified
- CE/ FCC Class B, Energy Star Certified, WiFi Alliance Certified

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 QAM), -15 to +15dBmV (256 QAM)
- Input Impedance: 75 Ω

Upstream*

- Frequency Range: 5MHz ~ 42MHz
- 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 will vary based on factors including network configuration and service tier.

Wireless, Network, Security

- Supports 4 SSIDs, 802.11b/g/n Compliant with Link Speeds up to 300 Mbps, 2 Tx and 2 Rx antennas
- DHCP Client/Server & Static IP network assignment, RIPv1/ v2, Ethernet 10/100/1000 BaseT, full-duplex auto-negotiate functionality, IPv4 and IPv6 support
- 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
- VPN Pass-Through and VPN End-Point Support (IPSec/L2TP/PPTP), TACACS or RADIUS Authentication

Voice

- MGCP 1.0 / NCS 1.0 and SIP (RFC3261)
- 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), Echo Cancellation (G.168) / Silence Suppression, Voice Active Detection and Comfort Noise Generation

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 and SNMP
- Configuration Backup and Restore. SNMP Support

Physical and Environmental

- Dimensions: 228(W) x 230(D) X 60(H) mm, Weight: 934g (with battery).
- Power: 12V/1.5A
- Operating Temperature: 0°C ~ 40°C, Humidity: 5~90% (non-condensing)
- **Note:** Battery supports continuous voice service during power outages, and provides up to 8.5 hours standby time, and 4 hours talk time with 2 lines offhook.

