



Ubee® DOCSIS 3.0

8x4 Batteryless

Advanced Wireless Voice Gateway

Model: **DVW324**

DVW324 Device Highlights



High Speed – Increased bandwidth for subscribers' multimedia and high-bandwidth applications with speeds up to 300 Mbps downstream* and 100 Mbps upstream.*



Advanced Wireless – Eight SSIDs offer flexibility for the customer's network. MSOs can reserve SSIDs for hotspots, guest access, and applications.



Security – Security authentication and encryption standards prevent unauthorized access to the wireless network including: WPA/WPA2, WPS, and SPI Firewall. IPv4 & IPv6 support enables increased address capacity and improved security.



Network Interface – Four 10/100/1000 Ethernet interfaces for high-speed LAN capability. One USB port with host controller is also available.



Voice – Two analog telephone connections. Without battery capability, the DVW324 is an economical solution for MSOs that do not need battery backup.



Full Band Capture – For channel lineup flexibility like no "block" tuner restrictions such as all DOCSIS bonding in certain frequency window and keeping voice service on existing channels.



Enhanced Diagnostic Capabilities – High performance spectrum analyzer helps reduce troubleshooting costs.

* - Actual speeds vary based on factors such as network configuration and service tier.



DVW324 Advanced Voice Wireless Gateway

Overview

Ubee introduces the **DVW324 Advanced Wireless Voice Gateway**. With increased data throughput, the DVW324 targets residential and Small Office/Home Office (SOHO) customers by delivering 802.11n wireless speeds, excellent wireless coverage, Gigabit LAN performance, and high-tier WAN speeds. The DVW324 reduces operational expenditure (OpEx) by eliminating the need for multiple devices in the SOHO or the MSO warehouse. Additional features include:

- **Speeds and Compatibility** — By supporting Gigabit Ethernet and 802.11n, the DVW324 offers LAN and wireless speeds that take advantage of higher speed tiers offered by DOCSIS 3.0. Further, the DVW324 is fully backwards compatible with 10/100 Ethernet, 802.11b/g wireless, and DOCSIS 1.0/1.1/2.0.
- **QoS** — Quality of Service features enable traffic prioritization for delay-sensitive multimedia services and applications.
- **Power Savings** — The DVW324 is Energy Star compliant and supports UAPSD power savings. UAPSD interacts with connected wireless clients prompting them to doze and save power when possible.

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 **DVW324 Advanced Wireless Voice Gateway**.



let's make it *easy*

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DVW324 Product Specifications

Interfaces & Standards

- ❑ Cable: F-Connector, female
- ❑ LAN: 4 10/100/1000 Mbps RJ45 ports
- ❑ USB: 1 USB 2.0 host port
- ❑ Telephony: 2 RJ11 ports, PacketCable 1.5 certified, PacketCable 2.0 compatible (requires customization)
- ❑ DOCSIS/Euro DOCSIS 1.0/1.1/2.0/3.0 certified
- ❑ CE/FCC Class B, ENERGY STAR, and Wi-Fi Alliance certified, UAPSD (power savings)

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)
- ❑ Total Max Bandwidth (8 Channels): DOCSIS = 342 (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 Bandwidth of 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)

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

Wireless, Network, Security

- ❑ Supports 8 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, end-point support (IPSec/L2TP/PPTP), TACACS or RADIUS authentication

Voice

- ❑ MGCP 1.0 / NCS 1.0
- ❑ 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 detection and generation, T.38 FAX relay (G.711), echo cancellation (G.165,G.168), silence suppression, voice activity detection, comfort noise generation, and dynamic jitter buffer
- ❑ Wideband SLIC provides G.722 codecs negotiation

Device Management

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

Physical and Environmental

- ❑ Dimensions: 24.4 cm (H) x 4.29 cm (W) x 16.51 cm (D) (9.62" x 1.68" x 6.5")
- ❑ Weight: 490 g
- ❑ Power: 12V/2A NOM certified, full range voltage
- ❑ Operating Temperature: 0°C ~ 40°C (32°F ~ 104°F)
- ❑ Humidity: 5~90% (non-condensing)

