



# Ubee DOCSIS 3.0

## Advanced Wireless Voice Gateway

### Model: **DVW32E**

#### DVW32E Device Highlights

-  **High Speed** - The DVW32E delivers increased bandwidth for subscribers' multimedia and high-bandwidth applications (up to 343Mbps downstream, 122Mbps upstream).\*
-  **Enhanced Wireless** - The DVW32E provides 8 SSIDs that offer considerable flexibility for the customer's network. MSOs can reserve SSIDs for hotspots, guest access, and other applications.
-  **Security** - The DVW32E 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** - 2 10/100/1000 Ethernet interfaces provide high speed LAN capability. IPv4 and IPv6 support enables increased address capacity and improved security.
-  **Full Band Capture** - For channel lineup flexibility: No "block" tuner restrictions such as all DOCSIS bonding in certain frequency window; Keeps voice service on existing channels.
-  **Diagnostic Capability** - Integrated high performance spectrum analyzer helps reduce troubleshooting costs.
-  **Voice** - The DVW32E offers two analog telephone connections. Without battery capability, the DVW32E is an economical solution for MSOs that do not need battery backup.

\* Actual 8DSx4US speeds vary based on factors such as network configuration and service tier.



DVW32E Advanced Wireless Voice Gateway

#### Overview

Ubee introduces the DVW32E Wireless Voice Gateway. The DVW32E blends high-speed LAN capabilities with voice and the convenience of wireless networking in one device. The DVW32E is well-suited to deliver multiple networking capabilities to the contemporary demands of residential and Small Office/Home Office (SOHO) subscribers. The DVW32E reduces operational expenditures (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, the DVW32E offers LAN and enhanced wireless speeds to take advantage of higher speed tiers offered by DOCSIS 3.0. The DVW32E is fully backwards compatible with 10/100 Ethernet, 802.11 a/b/g wireless, and DOCSIS 1.x/2.0 standards.
-  **QOS** - Quality of Service (QOS) features enable traffic prioritization for delay-sensitive multimedia services and applications.
-  **Power Savings** - The DVW32E offers UAPSD power savings, interacting with connected wireless clients, prompting them to doze and save power whenever possible. The DVW32E, buffers downlink data until the client awakens.
-  **Miscellaneous** - Energy Star compliant. File sharing, DLNA and network setup.

#### 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 **DVW32E Advanced Wireless Voice Gateway**.



#### Ordering Information

Ubee Part #	Country
DVW32E0U	México, Colombia, Ecuador, Peru, Central América
DVW32E0S	Brazil

# DVW32E Product Specifications

## Interfaces & Standards

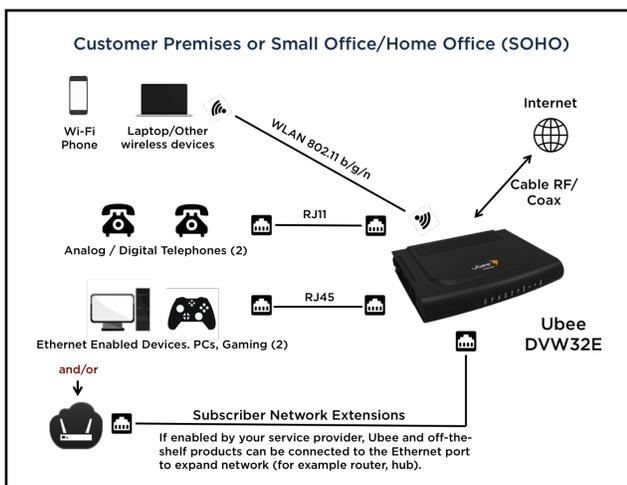
- ❑ Cable: F-Connector, female
- ❑ LAN: 2 10/100/1000 Mbps RJ-45 Ports
- ❑ Telephony: 2 RJ-11 Ports
- ❑ PacketCable 1.5/2.0 Compatible (requires customization)
- ❑ DOCSIS 3.0 certified
- ❑ DOCSIS 1.0/1.1/2.0 certified
- ❑ CE/FCC Class B, Energy Star Certified, WiFi Alliance Certified

## 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)
- ❑ Total Max Bandwidth (8 Channels): DOCSIS = 343 Mbps
- ❑ Symbol Rate: 5361 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, 128QAM
- ❑ Max B/W of 4 Channels = 122.88 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 ~ 25.6 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)



## Enhanced Wireless, Network, & Security

- ❑ Supports 8 SSIDs, 802.11b/g/n compliant with link speeds up to 300 Mbps\*, 2 Tx and 2 Rx internal antennas with single band 2.4GHz radio. 2 spatial streams and up to 200mW radiated power.
- ❑ 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
- ❑ Ring Voltage: 270 VAC, pk-pk (tip ring), Line Voltage Onhook: -48 Volts, Loop Current: 20mA / 40mA, Ring Capability: 2K ft., 5REN, Hook State: Signaling Loop Start
- ❑ DTMF Tone Detection and generation, T.38 FAX Relay (G.711), Echo Cancellation (G.168) / Silence Suppression, Voice Active Detection and Comfort Noise Generation, and dynamic jitter buffer
- ❑ Wideband SLIC provides G.722 codec negotiation

## Device Management

- ❑ Supports IEEE 802.11e WiFi Multimedia (WMM) and UAPSD (power savings)
- ❑ DOCSIS, Web-based, and XML configuration
- ❑ Telnet remote management
- ❑ Firmware upgrades via TFTP
- ❑ Configuration backup and restore
- ❑ SNMP support
- ❑ TR-069 capable

## Physical and Environmental

- ❑ Dimensions: 215 (W) x 165 (D) x 36 (H) mm
- ❑ Weight: 515 g (unit only)
- ❑ Power Consumption: 18W (full load)
- ❑ Energy Star Compliant Power Supply: 12V / 1.5A NOM certified, 100-240 Vac, 50-60 Hz, 0.6A Max
- ❑ Operating Temperature: 0°C ~ 40°C
- ❑ Humidity: 5 ~ 90% (non-condensing)
- ❑ Operating altitude from sea level: -60 to +4,500 meters

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



www.ubeeinteractive.com

8085 S. Chester Street, Suite 200

Englewood, CO 80112

1.888.390.8233

Sales (email): amsales@ubeeinteractive.com

Support (email) amsupport@ubeeinteractive.com