



# EuroDOCSIS 3.1 Extreme Wireless Voice Gateway

## Model: **UBC1304**

The **UBC1304 Extreme Wireless Voice Gateway** is a recent addition to Ubee's growing portfolio of next generation DOCSIS 3.1 gateways. EuroDOCSIS 3.1, 3.0 and EuroPacketCable 1.0/1.5/2.0 compliant, the UBC1304 delivers multi-gigabit speeds over existing hybrid fiber coax networks. It integrates 4 products into a single device: a cable modem, a residential gateway with built-in 4-port gigabit Ethernet switch, an 802.11ac dual-band concurrent Wi-Fi access point, and a multimedia terminal adapter for telephony. The UBC1304 provides reliable high-speed connectivity and is an ideal solution to satisfy the increasing demands of high-quality video streaming on multiple screens and heavy gaming traffic for residential and Small Office/Home Office subscribers.

### Key Features & Benefits:

**High Data Rates** - The UBC1304 delivers increased bandwidth for multimedia and high-bandwidth applications like 4K/Ultra High Definition video streaming and heavy gaming. Its powerful system processing capability (up to 5 Gbps) provides a steady Internet stream that can easily handle multi-stream applications on different devices simultaneously.

▶ **EuroDOCSIS 3.1:** 2x192MHz OFDM DS channels provide capacity up to 4.6Gbps @ 4096QAM, 2x96MHz OFDMA US channels provide capacity up to 480Mbps @ 4096QAM .

▶ **EuroDOCSIS 3.0:** 32 downstream and 8 upstream channels provide speeds of up to 1780Mbps downstream and 246Mbps upstream.

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

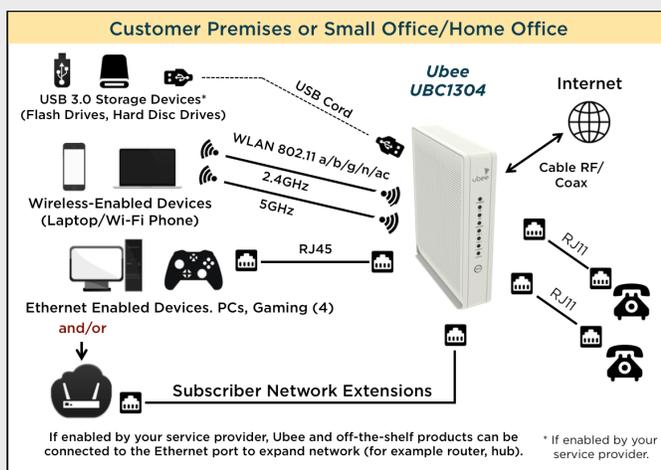
**Wi-Fi Connectivity & Security** - Provides dual-band concurrent 2.4GHz and 5GHz radios. 8 SSIDs per radio offer considerable flexibility for the customer's network. The residential gateway with an integrated 802.11ac access point gives users the flexibility to connect to a variety of home and mobile devices with high connection speeds and extraordinary coverage.

**Telephone Service** - Supporting 2 analog devices (telephones or faxes), as well as standard CLASS features, the UBC1304 is EuroPacketCable 1.0/1.5 compliant. It is software be upgradeable to EuroPacketCable 2.0 and supports SIP (RFC3261).

**Future Proof** - The UBC1304 is future-proofed by the introduction of an additional high performance applications processor running Linux. This enables the enhancement of the gateway by additional software features such as USB storage, DLNA Media Server, 3G/4G Fall Over and other applications. An optional Zigbee interface can support Internet of Things (IOT) applications growth.

**Diagnostic Capability** - Integrated high performance spectrum analyzer helps reduce troubleshooting costs.

**Network Interface** - Four 10/100/1000 Ethernet interfaces providing high-speed LAN capability. IPv4 and IPv6 support enables increased address capacity and improved security.



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# UBC1304 Product Specifications

## Interfaces & Standards

- ❑ Cable: F-Connector, female
- ❑ LAN: 4 10/100/1000 Mbps RJ-45 Ports, autosensing MDI-X
- ❑ Telephony: 2 RJ-11 ports
- ❑ 1 USB 3.0 host port to support Linux applications for Ubee and 3rd party applications
- ❑ PacketCable and EuroPacketCable 1.0/1.5/2.0 compatible
- ❑ SIP RFC3261
- ❑ EuroDOCSIS 3.1 and 3.0 compliant
- ❑ Reset button
- ❑ Power ON/OFF switch
- ❑ WPS/WLAN ON/OFF switch

## Regulatory

- ❑ CE, EuP, RoHS, WEEE

## Downstream/Upstream

- ❑ DS Frequency Range: 108MHz/258MHz ~ 1218MHz switchable, capture bandwidth: 1.2GHz
- ❑ DS Modulation: 64 or 256 QAM and OFDM: 4096 QAM
- ❑ US Frequency Range: 5MHz - 85MHz/204MHz switchable
- ❑ US Modulation: QPSK or 8/16/32/64/128 QAM and OFDM-A: 4096 QAM
- ❑ Input Impedance: 75  $\Omega$

## Device Management

- ❑ Web-based user interface
- ❑ SNMP v1, v2c, v3
- ❑ Serial console (optional)
- ❑ Syslog
- ❑ Telnet console
- ❑ Wi-Fi radar
- ❑ Spectrum analyzer
- ❑ TR-069 capable

## Status LEDs

- ❑ POWER, DS, US, ONLINE, TEL 1, TEL 2, 2.4GHz Wi-Fi, 5.0GHz Wi-Fi, WPS, LAN1-4

## Physical Specifications

- ❑ Dimensions when positioned vertically: 208 (D) x 250 (H) x 50 (W) mm
- ❑ Weight: 850 g
- ❑ External Power Supply: 12VDC / 3.5A
- ❑ Positioning: vertical, or wall mounted

## Environmental

- ❑ Operating Temperature: 0°C - 45°C
- ❑ Storage Temperature: -20°C - +70°C
- ❑ Operating Humidity: 5 ~ 95% (non-condensing)

## Enhanced Wireless, Network, & Security

- ❑ Supports 8 SSIDs per radio
- ❑ Supports 802.11a/b/g/n/ac
- ❑ High Power Wi-Fi output (under CE regulation)
- ❑ Dual band concurrent 2.4 and 5GHz radios with link speeds up to 2200Mbps (450Mbps+1750Mbps)
- ❑ Internal antennas: 3Tx and 3Rx for the 2.4GHz band, and 4Tx and 4Rx for the 5GHz band
- ❑ WPA, WPA2, WPA-PSK, WPA2-PSK, WEP 64/128-bit, WMM, (802.11e)
- ❑ WPS (PIN and PBC)

## Gateway

- ❑ DHCP client and server
- ❑ Static and dynamic IP routing (RIP v1/v2)
- ❑ IPv6 routing / forwarding upgrade
- ❑ NAT, PAT, Port forwarding
- ❑ Stateful Packet Inspection Firewall (SPI)
- ❑ MAC/IP/Port filtering
- ❑ DoS attack protection
- ❑ UPnP/DLNA
- ❑ Parental Control / Keyword Filter

## Telephony

- ❑ Audio codecs: G.711 a/ $\mu$ , G.722, G.723, G.726, iLBC, BV16, G.728
- ❑ Echo Cancellation (G.168, G.165) and Silence Suppression
- ❑ T.38 FAX Relay
- ❑ DTMF tone relay (RFC2833)
- ❑ Caller ID basic and extended CLASS features
- ❑ Voice Active Detection
- ❑ Packet Tone Generation (e.g. DTMF, call progress tones)
- ❑ Modem support
- ❑ RTCP XR



**Ubee UBC1304**  
**Extreme Wireless Voice Gateway**

