



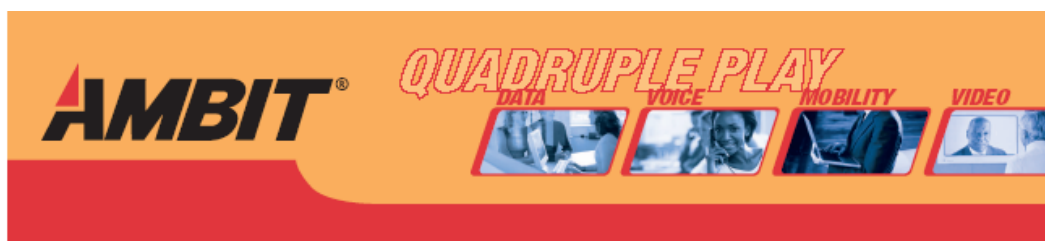
## Ambit U10C017 VoIP Cable Modem with Embedded Battery Backup

The Ambit U10C017 VoIP cable modem with embedded battery backup has achieved PacketCable 1.0 and DOCSIS 2.0 certification, ensuring compliance with the latest industry standard.



### Product Highlights

- DOCSIS 2.0 & PacketCable 1.0 Certified.
- Compatible with PacketCable 1.5
- Two telephone lines with RJ-11 connectors
- Two Embedded lithium-ion batteries for a total of 20 hours standby or 13.5 hours off-hook
- Batteries can be replaced without tools
- 10/100Base-T Ethernet and USB ports
- 360° swivel stand
- Wall-mountable
- Reset button
- All CLASS features
- T.38 Fax and DTMF Relay support
- SIP support
- HTML and telnet diagnostics page
- Remote configuration via SNMP and TFTP



Ambit Microsystems provides a full range of CPE products for data, voice, video, and mobility. With over 6 million cable modems deployed to date, Ambit has significant experience in helping MSOs achieve their goals. Please visit us at [www.ambitbroadband.com](http://www.ambitbroadband.com) for more information.

# Specifications

## Hardware

Cable Interface	F-Connector, female
CPE Network Interface	USB 1.1 and 10/100 Based-T RJ-45 Port, 2 RJ-11 Ports
Dimensions	8.48"W x 2.28"H x 5.65"D
Power Consumption	Maximum 8W (Full Load)
Power Supply	15V @ 1.3A
Input Power	100-240 VAC, 50-60 Hz
Operating Temperature	0° C to 40° C (32° F to 104° F)
Operating Humidity	5 to 95% (non-condensing)
Battery	Lithium ion 10 hours on-hook 6.5 hours off-hook (one line) 5.5 hours off-hook (two lines)
Tuner	Low power consumption tuner

## Telephony

Line Type	RJ-11 * 2
Ring Voltage	194VAC, pk-pk
Line Voltage	-48 Volts
Loop Current	25mA / 40mA
Ring Capability	2K ft., 5REN
Hook State	Signaling Loop start

## Downstream

Frequency Range	88MHz ~ 860MHZ
Modulation	64 / 256 QAM
Maximum Data Rate*	30Mbits/sec (64QAM) 42.8Mbits/sec (256QAM)
Symbol Rate	5.057/5.361/Msymbols/sec
RF Input/Output Power	-17 to +15dBmV (64 QAM), -15 to +17dBmV (256 QAM)
Input Impedance	75 Ω
Channel Bandwidth	6 or 8 MHz

## Upstream

Frequency Range	5MHz ~ 42MHz
Modulation	A-TDMA:QPSK, 8, 16, 32, 64QAM S-CMDA:QPSK, 8, 16, 32, 64, 128QAM
Maximum Data Rate*	0.32 ~ 10.24Mbits (QPSK) 0.64 ~ 20.48Mbits (16QAM) 0.96 ~ 30.72Mbits (64QAM)
Symbol Rate	160, 320, 640, 1280, 2560, 5120 Ksymbols/sec
RF Input/Output Power	A-TDMA: +8dBmV ~ + 58dBmV(QPSK) +8dBmV ~ + 55dBmV(QAM) +8dBmV ~ +54dBmV (32/64)

## Features

- DOCSIS 2.0 / EuroDOCSIS 1.1 Dual Mode Cable Modem Built-In
- Embedded DHCP / TFTP / DNS and TP client
- Embedded Telnet and Web Server
- SNMP v1/v2/v2c and v3 agent Built-In
- PacketCable 1.0/1.5 Compliant and Upgradeable
- Supports 2 VOIP Channels
- Supports G.711u,a / G.723 5.3,6.3k / G.726 16,32,40k / G.728 16k / G.729,A,E / BV-16/ iLBC / T.38 / DTMF Relay(RFC2833)
- MGCP 1.0 / NCS 1.0 and SIP for VOIP Signaling
- RTP / RTCP for Voice Stream and Control
- Dual Mac built-in and Dual DHCP IP
- Configurable Ring Voltage (pk-to-pk 194Volts) / Loop Current (25mA/40mA)
- Dynamic QoS for Voice Stream
- IP Precedence for Signaling Protocol
- AES Encryption for Voice Stream Security
- IPSEC for Voice Signaling Security
- Class Features: Call Holding / Waiting / Forwarding (busy/No Answer/Always)/ Conferencing / Hunting / Voice Mail, Distinctive Ring / Auto Callback
- Supports Fax (Pass through and Relay) and V.34 / V.90 Dial-up Modem
- Supports Caller ID and VMWI
- Supports Voice Active Detection (V.A.D.) and Comfort Noise Generation
- Supports T.168 Echo Cancellation
- DTMF / Pulse Dialing Detection and Generation
- 2 battery slots, each battery supports 10 hours on-hook time and 6.5 hours off-hook time

\*Actual speeds will vary based on factors including network configuration and traffic.