

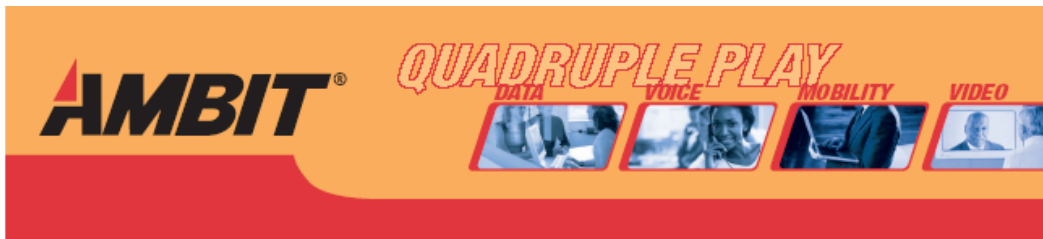
## Ambit U10C019 Wireless Cable Modem Router

The Ambit U10C019 Wireless Cable Modem Router is designed to support both the residential and commercial users in one device! This is a perfect solution for MSOs looking to use one device to service both their commercial and residential wireless customers.



### Product Highlights

- DOCSIS 2.0 & CableHome 1.1 Certified
- Supports 802.11b/g
- Detachable antenna allows for even greater distances when needed
- 4 10/100Base-T Ethernet ports & 1 USB port
- 10/100Base-T Ethernet and USB ports
- 360° swivel stand
- Wall-mountable
- Reset button
- WPA-2/WPA2-PSK Wireless Encryption
- Configurable via Telnet, Web, and SNMP
- VPN Endpoint (local/remote endpoint)
- Static Routing
- RIPv2 & SSH2
- Content Control and Firewall (SPI)
- ARP Storm Protection
- Port Scan Protection
- IP Flood Detection



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
Dimensions	7.75in(w) x 5.4in(h) x 1.4in(D)
Power Consumption	Maximum 8W
Power Supply	10V @ 1.0A
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)

### Wireless

Standards	IEEE 802.11; 802.11b/g; DSSS
Transmit Power	18dBm
Operating Frequency	2400~2497MHz ISM band
Data Rate	1, 2, 5.5, 6, 9, 11, 12, 24, 36, 48, & 54 Mbps
Frequency Range	11 channels (2.412 to 2.462GHz)
Antenna	External

### 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 & CableHome 1.1 firmware
- Supports Bridge, NAT, Route, NATRoute & Cablehome operational modes
- Supports RIP v2 for Commercial environments
- Supports up to three public routable subnets/public IP addresses
- Ability to copy running-config to TFTP server (backup)
- Remote management via telnet, web, SSH, SNMP
- Supports VSIF (vendor specific information field)
- SPI firewall with port exclusion capability
- Static Routing (up to 5 entries)
- VPN local/remote end-point – IPSEC 3DES, support for up to 64 tunnels
- Advanced Gateway configuration including port-blocking, filtering, triggering & DMZ host
- Parental Control including Time of Day filter
- Access Control list based on IP address, MAC address & management
- TACACS or RADIUS Authentication
- Separate MSO/End-User login & password

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