



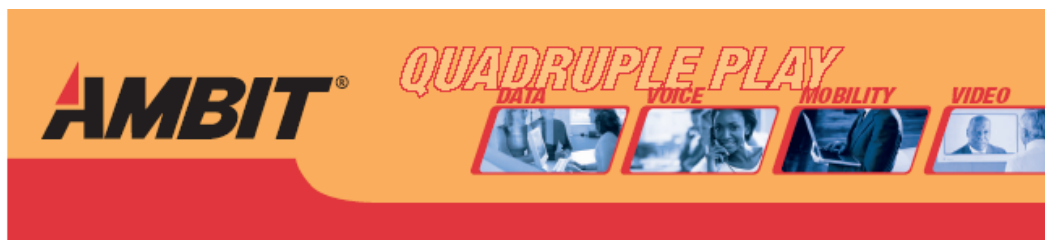
## Ambit U10C019 Wireless Cable Modem Router

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
- 360° swivel stand
- Wall-mountable
- Reset button
- WPA-2/WPA2-PSK Wireless Encryption
- Configurable via SSH, Telnet, Web, and SNMP
- VPN Endpoint (local/remote endpoint)
- Static Routing
- RIPv2
- 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 10 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<br>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,<br>48, &54 Mbps |
| Frequency Range     | 11 channels<br>(2.412 to 2.462GHz)               |
| Antenna             | External   |

## Downstream

|                       |  |
|-----------------------|--|
| Frequency Range       | 88MHz ~ 860MHZ                                       |
| Modulation            | 64 / 256 QAM   |
| Maximum Data Rate*    | 30Mbits/sec (64QAM)<br>42.8Mbits/sec (256QAM)        |
| Symbol Rate           | 5.057/5.361/Msymbols/sec                             |
| RF Input/Output Power | -17 to +15dBmV (64 QAM),<br>-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,<br>64QAM<br>S-CMDA:QPSK, 8, 16, 32, 64,<br>128QAM                |
| Maximum Data Rate*    | 0.32 ~ 10.24Mbits (QPSK)<br>0.64 ~ 20.48Mbits (16QAM)<br>0.96 ~ 30.72Mbits (64QAM)       |
| Symbol Rate           | 160, 320, 640, 1280, 2560,<br>5120 Ksymbols/sec  |
| RF Input/Output Power | A-TDMA:<br>+8dBmV ~ + 58dBmV(QPSK)<br>+8dBmV ~ + 55dBmV(QAM)<br>+8dBmV ~ +54dBmV (32/64) |

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## 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.