

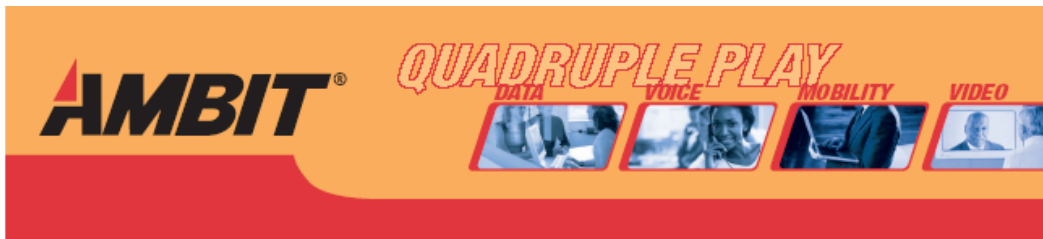
Ambit U10C020 Cable Modem Router

The Ambit U10C020 Cable Modem Router is an advanced device designed to support the needs of commercial users. In addition to allowing PCs to share an Internet connection, the Cable Modem Router supports high-end features including IPsec VPN, SPI Firewall, Access Control Lists, Static Routing, and much more. This is an ideal solution for MSOs looking for one device that supports all the features you'd expect in a commercial router combined with an extremely dependable cable modem.



Product Highlights

- Integrated DOCSIS 2.0 Cable Modem
- 4 10/100Base-T Ethernet ports & 1 USB port
- 360° swivel stand
- Wall-mountable
- Reset button
- Supports Bridge, NAT, Route, & NATRoute operational modes
- Supports up to three public routable subnets/public IP addresses
- Advanced Gateway configuration including port-blocking, filtering, triggering & DMZ Host
- Remote management via Telnet, Web, and SNMP
- VPN Endpoint (local/remote)
- TACACS or RADIUS Authentication
- Multi-level user/password
- Static Routing
- RIP v2 & SSH2
- Content Control and Firewall (SPI)
- ARP Storm Protection
- Port Scan Protection
- IP Flood Detection
- VSIF (Vendor Specific Info. Field)
- Access Control List (ACL) based on IP or MAC address & management



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 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)

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
- 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.