



Wireless LAN Cable Router

Ambit's Wireless LAN Cable Modem Router combines a robust router and IEEE 802.11b wireless access point with Ambit's DOCSIS certified cable modem. Features include routing protocol, NAT, static IP, IP mapping, and much more! Simplicity, Flexibility, and Remote Management are all key benefits of the Ambit Cable Modem Router.

- **Simplicity** – Includes intuitive LEDs, making self-installations a snap. If utilizing USB, our WHQL certified drivers ensure compatibility with any Microsoft O/S. The in-line power supply eliminates the hassle of finding an available wall outlet.
- **Flexibility** – A simple software download upgrades the modem to DOCSIS 1.1. The router can be configured for just about any subscriber requirement.
- **Remote Management** – Eliminate truck rolls with Ambit's comprehensive management utilities.

With telnet access, MSOs can:

Configure router - The router contains a wealth of configuration options including NAT, RIP, static IP, DHCP pools, access lists, and much more.

Enable/disable ports – Designed to allow the MSO to enable/disable interfaces in real-time based on the customer's service plan.

Access List – Never worry about unauthorized access in a dorm or apartment environment. You control the MAC addresses that can access the Ambit Wireless LAN Cable Modem Router.

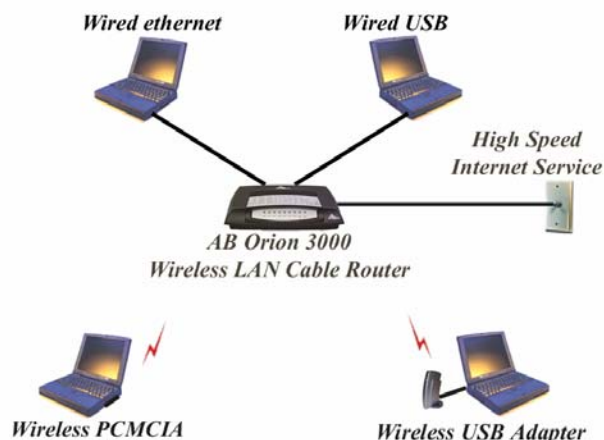
With Web-based interface, MSOs can:

Access Modem diagnostic – Access the modem's diagnostic information locally or remotely.

Configure Wireless LAN - Configure wireless LAN parameters locally or remotely.

- **Router features:**
 - NAT (static or DHCP) supports PAT
 - VPN pass-through
 - Telnet command**-style interface for straight-forward management
 - DHCP** server for internal network
 - Access control list** for IP and MAC address control
 - Customized commands** for each user level to reduce errors

Ambit is a worldwide provider of broadband products. Our years of experience in providing wireless technologies to PC manufacturers along with over 1 million cable modems sold worldwide has helped Ambit create products specifically designed with the MSO in mind.



SPECIFICATION

Item	Downstream (Receiver)	Upstream (Transmitter)
Frequency Range	88MHz ~ 860MHz	5MHz ~ 42/65MHz
Modulation	64QAM/256QAM	QPSK/16QAM
Symbol Rate	5.057/5.361/6.952 Msymbols/sec	160, 320, 640, 1280, 2560 Ksymbols/sec
Data Rate	30Mbits/sec (64QAM) 43Mbits/sec (256QAM)	0.32 ~ 5.12Mbs (QPSK) 0.64 ~ 10.24Mbs (16QAM)
RF Input/Output Power	-15dBmV ~ +15dBmV	+8dBmV ~ + 58dBmV(QPSK) +8dBmV ~ + 55dBmV(QAM)
Carrier To Noise Ratio @BER<10	64QAM: 23.5dB 256QAM:30dB	
CPE Interface	10/100 Based-T, Rj45 connector USB 1.0 & 1.1 Connector Type B	
RF Cable Interface	75 ohm F-type female connector	
MAC, LLC/SNAP, IP and CPE Filter	DOCSIS RFI	
Internet Protocol Stack	ARP, ICMP, IP, TCP/UDP, IGMPv2, RFC826, RFC792, RFC791, RFC768/793	
Provisioning Applications	DHCP, TFTP, ToD client, RFC2236	
SNMP Protocol	SNMP v2c, RFC2131/2132, RFC1350, RFC867, SNMP v3, RFC2571, RFC2576	
MIBs Support	RFC1905, RFC1213, RFC2011, RFC2013, RFC2669, RFC2670, RFC2233, RFC1907, RFC1493, draft - ietf i ipcdn - mens -bpi - mib-01, Qos MIB, RFC2933, BBI + MIB, RFC2786, Ambit private	
Wireless Access Point		
Operating Frequency	2400~2497MHz ISM band	
Data Rate	11 Mbps with fall back rates to 5.5, 2 & 1 Mbps	
Transmitter Power	Maximum 17dBm	
Modulation	DQPSK, DBBPSK, and CCK	
Encryption	64/128bit WEP	
Antenna	Internal diversity	
Router		
DHCP	Client and server	
NAT/NAPT	Network Address Translation, Network Address and Protocol Translation	
Configuration	Telnet, Web interface, and SNMP	
Security	Access control list for filtering	
Mode of Operation	Bridge and NAT	

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MANUFACTURED BY
CERTIFIED
FACTORY

