

BRG-3520

Broadband Cable Modem with USB & Ethernet



Key Features

- DOCSIS 1.0-compliant cable modem, DOCSIS 1.1 hardware-ready, easily software upgradeable
- Full-featured compact, economical cable modem with USB and Ethernet ports
- RJ-45 10/100BaseT Ethernet port serves as interface for a computer or local area network
- USB port allows easy plug-and-play attachment of the latest Windows-based PCs
- Capable of handling downstream data transmission speeds up to 38Mbps, upstream to 10Mbps
- Extensive SNMP management support, MIB-II, Ethernet-like MIB, Bridge MIB, Cable Device MIB, Baseline privacy Interface MIB, RF Interface MIB
- OS-independent, works with all major software platforms
- IP address filtering
- Easy-to-read LED's clearly display network status and activity

Overview

Hitron's BRG-3520 is a full-featured yet economical, entry-level DOCSIS 1.0-compliant cable modem with both Ethernet and USB interfaces. Its neat, compact design and small footprint make it ideal for home, office or campus use.

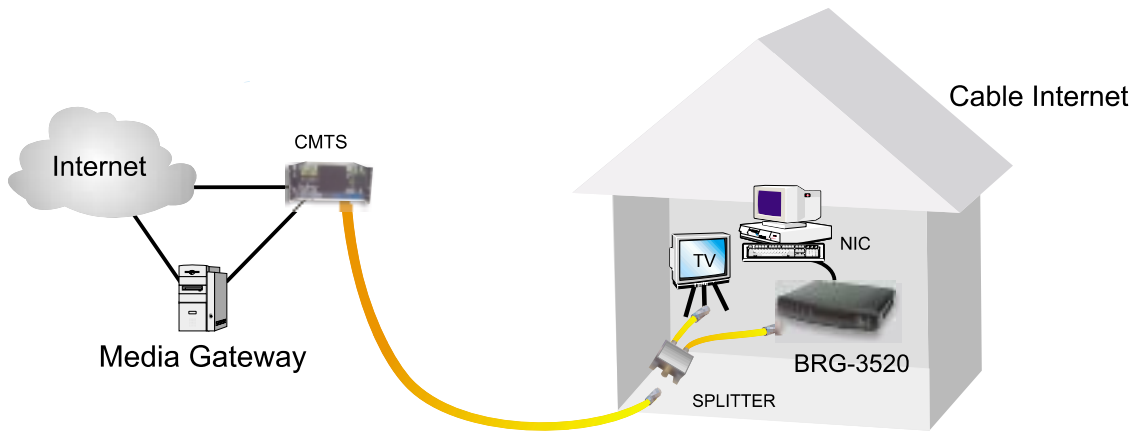
The BRG-3520 is the perfect solution for cable operators who want to add the value of broadband Internet connectivity to their current or future customer base. High-speed data transfers up to 38 Mbps downstream and 10 Mbps upstream are possible over the installed HFC cable plant. Hitron's software lets operators assign up to 15 IP addresses for deployment in small office or dormitory settings.

Installation is so quick and easy it can be done even by end-users. The USB port allows plug-and-play connectivity without opening the computer or performing complex configurations. Front panel LEDs clearly display both cable and network status. A browser-based utility allows convenient viewing of network statistics. DHCP and TFTP clients allow the modem to automatically get its IP address and configuration data from network servers, without the intervention of either the user or installer.

Advanced features include IP address filtering to prevent unwanted traffic on the network and SNMP agents that permit remote configuration and monitoring from a management station equipped with an SNMP server. DES data encryption ensures complete privacy for transmitted information.



HitronTechnologies USA Inc.



Upstream (Transmitter)

Modulation	QPSK/16QAM
Symbol Rate	160,320,640,1,280 and 2,560 ksym/sec
Frequency Range	5 to 42Mhz
Bandwidth	200, 400, 800, 1,600 and 3,200 kHz
Signal Level.....	8 to 55 dBmV(16QAM) 8 to 58 dBmV(QPSK)
Output impedance.....	75 ohms
Output Return Loss.....	>6 dB
Channel frequency accuracy	+50ppm
Symbol rate accuracy	+50ppm
Symbol timing jitter	<0.02 of the nominal symbol duration over a 2-sec period
Reed-Solomon codes with T=1 to 10 or no FEC coding	
Arbitrarily programmable seed scrambler	
Programmable variable-length preamble	

Downstream (Receiver)

Modulation Type	64QAM/256QAM
Symbol Rate	5.056941(64QAM)/5.360537(256QAM)Msym/sec
Frequency Range	91 to 857MHz
Bandwidth	6MHz
Signal Level.....	-15 dBmV to +15 dBmV
Total input power.....	(40-900 Mhz) 30 dBmV
Input impedance	75 ohms
Input Return Loss	6dB
Downstream Protocol	ITU J.83-B with a subset interleave mode
CM BER performance.....	64QAM:<10 @Es/No of 23.5 dB or greater 256QAM:<10 @Es/No of 30 dB or greater

Network Features

MAC Protocol	MCNS/DOCSIS 1.0 Compliant MCNS/DOCSIS 1.1 upgradable
Protocol.....	UDP, IP, ARP, ICMP, DHCP, TFTP, SNMP, HTTP
Management.....	SNMP, MIB-II, Ethernet-like MIB, Bridge MIB, Cable Device MIB, Baseline privacy Interface MIB RF Interface MIB
Security	Baseline Privacy
DA Filtering	32 unicast addresses

Equipment Specifications

CPE Interface	J-45 10/100BaseT USB B-Type
Cable Interface	Female "F" type RF Connector
Power Supply	12V/1.25A
Power Consumption	8Watts
Dimensions	120mm x 142mm x 30mm (4.7in x 5.6in x 1.2in)
Storage Temperature	-20 to +70
Operating Temperature	0 to 40
Operating Humidity	10% to 90% (Non-Condensing)