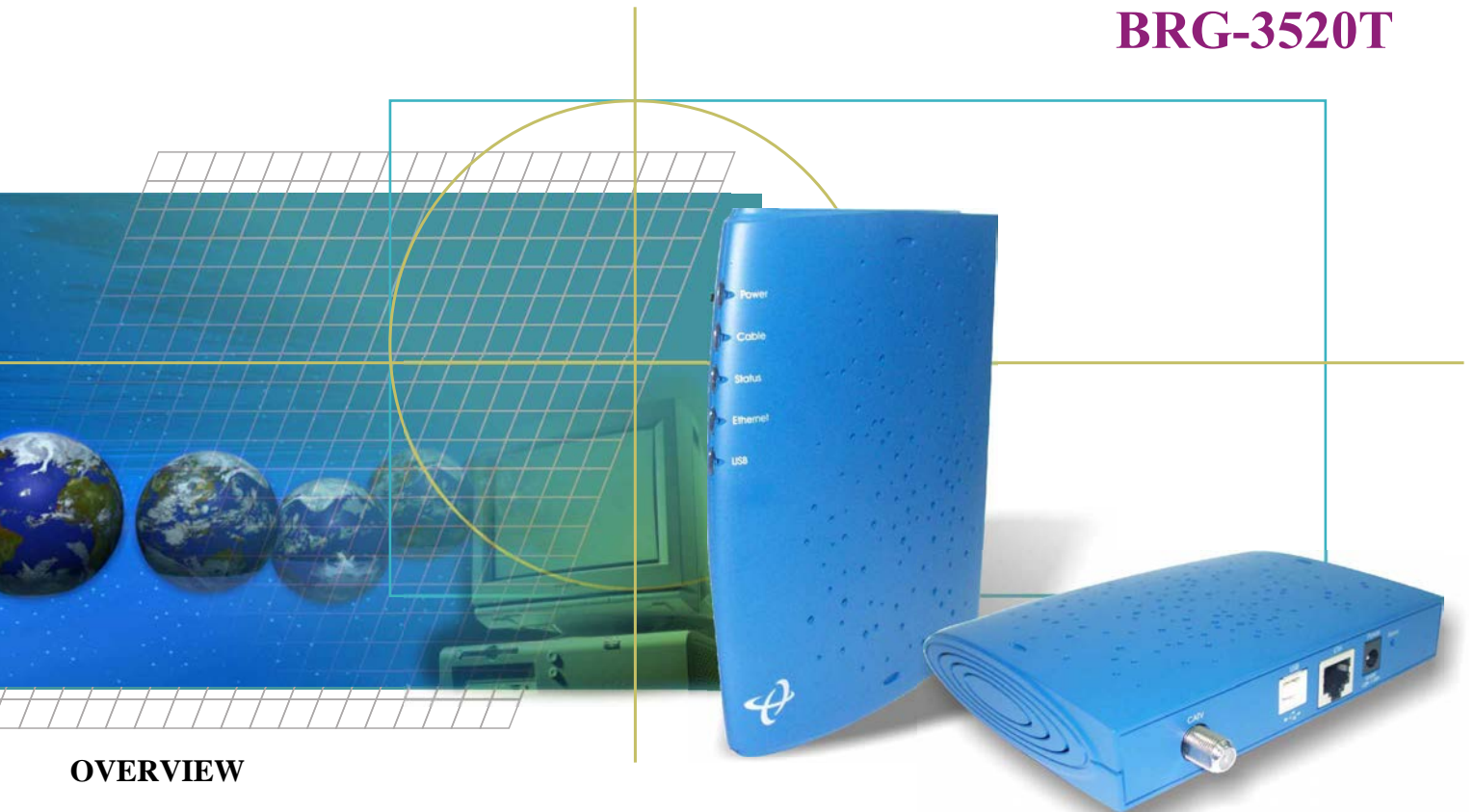


Compact Cable Modem with USB & Ethernet

BRG-3520T



OVERVIEW

Hitron's BRG-3520T is a full-featured yet economical, entry-level DOCSIS 2.0-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-3520T 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 38Mbps downstream and 30Mbps upstream are possible over the installed HFC cable plant. Hitron's software lets operators assign up to 32 IP addresses for deployment in small office or dormitory settings.

Installation is so quick and easy it can even be done 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 key 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.

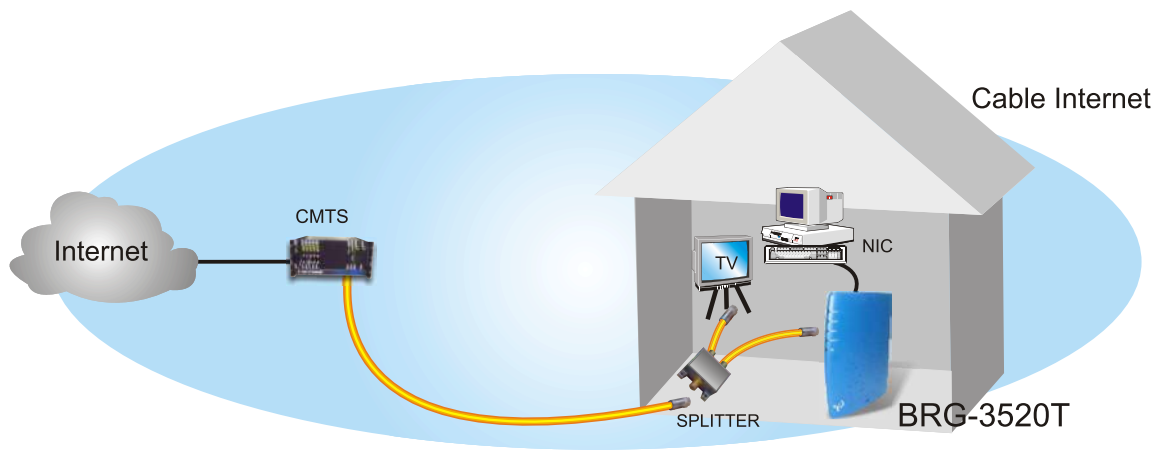
Advanced features include IP address filtering to prevent unwanted traffic on the network and SNMP agents that permit remote configuration and monitoring from a management station equipped with an SNMP server. DES data encryption ensures complete privacy for transmitted information over cable media.

KEY FEATURES

- Full-featured compact, economical cable modem with Ethernet port
- DOCSIS 2.0 -compliant(submitted for DOCSIS 1.1/DOCSIS 2.0 certification in CW25)
- Equipped TurboDOX™ that significantly increases the download speed of TCP applications by factors up to 20 times the downstream throughput.
- Capable of handling downstream data transmission speeds up to 38Mbps; upstream to 30Mbps (64QAM)
- RJ-45 10/100BaseT Ethernet port provides traditional industry-standard connection
- Extensive SNMP management support: MIB-II, Ethernet-like MIB, Bridge MIB, Cable Device MIB, Baseline privacy Interface MIB, RF Interface MIB
- IP address filtering



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Upstream (Transmitter)

Modulation	QPSK/16QAM
Symbol Rate	160,320,640,1,280 and 2,560 ksym/sec
Frequency Range	5 to 42Mhz
Band width	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^{-8} @ Es/No of 23.5 dB or greater 256QAM: 10^{-8} @ Es/No of 30 dB or greater

Network Features

MAC Protocol	MCNS/DOCSIS 1.1 Compliant MCNS/DOCSIS 2.0 Compliant
Protocol Management	UDP, IP, ARP, ICMP, DHCP, TFTP, SNMP, HTTP 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 Specification

CPE Interface	RJ-45 10/100BaseT USB B-Type
Cable Interface	Female "F" type RF Connector
Power Supply	12V/1.25A
Power Consumption	<6Watts
Dimensions	120mm x 142mm x 30mm (4.7in x 5.6in x 1.2in)
Storage Temperature	-20 to +70°C
Operating Temperature	0 to 40°C
Operating Humidity	10% to 90% (Non-Condensing)



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