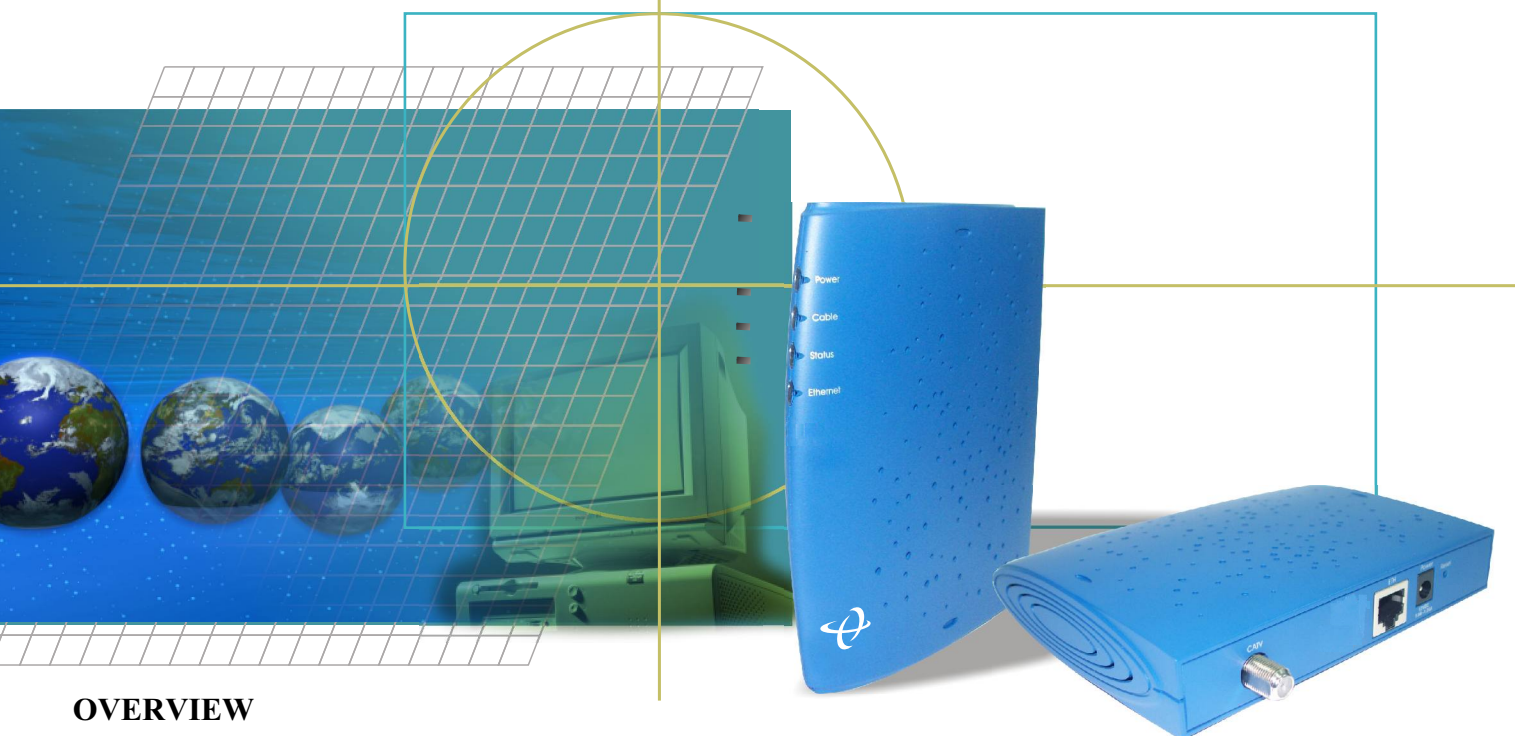


# Compact Cable Modem with USB & Ethernet

## BRG-35202-ED



### OVERVIEW

Hitron's BRG-35202-ED is a special full-featured yet economical, entry-level DOCSIS 2.0-compliant cable modem with both Ethernet and USB interfaces. The special point is that it can register with either DOCSIS or EuroDOCSIS CMTS withing European channel plan. Also it provides the software upgradable capability to EuroDOCSIS 1.1 or even EuroDOCSIS 2.0.

The BRG-35202-ED is the perfect solution for cable operators who has both DOCSIS or EuroDOCSIS CMTS in the same area. It is able to switch between 6Mhz or 8Mhz channel with automatically and reduce the efforts on finding proper Cable Modem for different CMTS or back and forth device swapping.

High-speed data transfers up to 38Mbps downstream and 30Mbps upstream. Hitron's software lets operators assign up to 32 IP addresses for deployment in small office or dormitory settings.

Front-panel LEDs clearly display both cable and network status. A browser-based utility allows convenient viewing of key network statistics.

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

- Able to register with DOCSIS or EuroDOCSIS CMTS without hardware or software setting in thr European Channel Plan
- EuroDOCSIS 1.0 -compliant( EuroDOCSIS 1.1/EuroDOCSIS 2.0 upgradable)
- 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 10Mbps in EuroDOCSIS 1.0 / 1.1 ( Upstream can support up to 30Mbps if using 64QAM in EuroDOCSIS 2.0 mode)
- 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
- Web / Telnet Interface for trouble shooting

## TECHNICAL SPECIFICATIONS

Model Name		BRG-35202-ED	
Compliant Standard		DOCSIS 1.1 / EuroDOCSIS 1.1	DOCSIS 2.0 / EuroDOCSIS 2.0
Interface	PC Interface	• 10/100BASE-T (half/full-duplex, auto-sensing) 1 port	
	WAN Interface	• F type female 75 $\Omega$	
Receiver	Demodulation	64/256QAM	
	Max Speed	38Mbps (64QAM) / 43Mbps (256QAM)	
	Frequency Range	91 to 857 MHz +/- 30 kHz (Center) DOCSIS/112 to 862MHz +/- 8MHz (Center) EuroDOCSIS	
	Bandwidth	6MHz (DOCSIS) 8MHz (EuroDOCSIS)	
	Signal Level	-15dBmV to +15dBmV (Automatically Gain Controlled by CM)	
	SNR	30dB or higher	
Transmitter	Modulation	2psk/6QAM	TDMA: QPSK, 8QAM, 16QAM, 32QAM, 64QAM S-CDMA: QPSK, 8QAM, 16QAM, 32QAM, 64QAM, 128QAM
	Max Speed	320, 640, 1280, 2560, 5120kbps (QPSK) 640, 1280, 2560, 5120, 10240kbps (16QAM)	
	Frequency Range	5 to 42MHz (edge to edge) DOCSIS or 5 to 65MHz (edge to edge) EuroDOCSIS	
	Bandwidth	0.2, 0.4, 0.8, 1.6, 3.2MHz	TDMA: 200, 400, 800, 1600, 3200 and 6400 kHz S-CDMA: 1600, 3200 and 6400 kHz
	Signal Level	+8dBmV to +58dBmV (QPSK) TDMA: +8dBmV to +55dBmV (16QAM)	TDMA: +8 to +54 dBmV (32QAM, 64QAM) +8 to +55 dBmV (8QAM, 16QAM) +8 to +58 dBmV (QPSK) S-CDMA: +8 to +53 dBmV (all modulations)
		(Output level of CM can automatically controlled by CMTS through power ranging function), Step: 1dB	
Max. Number of CPEs	Output Return Loss	> 6 dB (5-42 MHz) and (91~857 Mhz)	
		32 (32 MAC addresses)	
Filtering	LLC	16	
	IP	32	
Frequency Search	Frequency Cache	4 entries Frequency	
	Channel Plan	250kHz step	
Number of SID		16	
OSS	Protocol	ICMP/SNMP V1, V2c, V3	
	MIB	MIB II / MCNS MIB/Hitron Proprietary MIB	
LED		Power, Cable, Status Ethernet	

## Functions and Features

- (a) Optional TurboDox Enhancement
- (b) Maintenance information through HTTP I/F
  - System information (Version, operation status)
  - Downstream Information (Frequency, input power, S/N ratio)
  - Upstream Information (Frequency, output power)
  - Downstream channel frequency setting for fast frequency search
- (c) Supports packet filtering
  - Hardware filtering of Destination Address at MAC layer
  - Up to 32 IP filters
  - Up to 16 LLC filters and 16 Ethernet filters
- (d) QOS support

**SATEL S.A.**

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