

SBV2402

DOCSIS 3.0 Consumer Series Cable Modem with Telephony

FEATURES:

- 24x8 DOCSIS Channel Bonding for fast DOCSIS® 3.0 download speeds.
- Telephony support for Xfinity voice services
- Multiple 8K and HD video streams easily supported
- Multi Processor Technology with a 600 MHz Intel Atom® Core Application Processor
- Internal 32 bit Data architecture for maximum speeds



PRODUCT OVERVIEW:

The SURFboard® DOCSIS® 3.0 24x8 Embedded Multimedia Terminal Adaptor (E-MTA) SBV2402 delivers two lines of primary line Voice over IP (VoIP), powerful enough to support over 1 Gigabit per second download speeds. The SBV2402 enables both home and small businesses the speed and performance achievable with 16x4, 24x8, or 32x8 bonded channels, along with industry-leading ARRIS voice features. With the SBV2402, a consumer can subscribe to the highest supported DOCSIS 3.0 speed tier.



Specifications

GENERAL SPECIFICATIONS		GENERAL SPECIFICATIONS	
Physical		RF Upstream (continued)	
Operating Temperature °F (°C)	32 to 104 (0 to 40)	RF Output Level (dBmV – one channel)	TDMA: +17-61 (QPSK); +17-58 (8QAM, 16QAM); +17-57 (32QAM, 64QAM) S-CDMA: +17 to +56 (all modulations) Note1: A-TDMA max output reduced 3dB when transmitting 2 channels (6dB when transmitting 3+ channels). Extended US power compensates at higher bonding levels to ensure max output does not drop below +54dBmV. Note2: S-CDMA max output reduced 3dB when transmitting 2 or more channels.
Operating Relative Humidity (Min-Max)	5-95% (non-condensing)	Automatic Level Adjust	Yes
Storage Temperature °F (°C)	-40 to 158 (-40 to 70)	Frequency Stability (KHz)	±5
Dimensions (H x W x D) in. (cm)	7.1x1.8x7.1 (18.1x4.6x18.0) (excluding F-connector)	Output Impedance (Ohms)	75
Unit Weight in lbs (kg)	1.11 (0.50)	Standards	
Diagnostic LEDs	Power, US/DS, Online, Tel1, Tel2,	DOCSIS 3.0 Certified	UL® 60950 / CB RoHS / WEEE
Interfaces		PacketCable 2.0 Compliant	FCC Part 15 Class B / ICES-003 G.711, 64 kbps, µ-law and A-law encoded speech
RF Interface	External 75 ohm 'F' type connector	IEEE 802.3, 802.3ab	Telcordia™ GR-1089 Lightning/Surge Enhanced codecs: G.722, G.726, G.728, G.729E
Data Interface	10/100/1000 Base-T Ethernet RJ-45	RFC3261 Legacy SIP	Telcordia™ GR-63 NEBS T.38 Fax Relay
Telephony Interface	Two (2) RJ-11 jacks	ITU-T K.21	
Input Voltage (nominal)	115 VAC, 60 Hz		
Telephony			
Supervisory Voltage	48 VDC nominal		
Maximum Loop Length to CPE	1000 ft (305M) of 26 AWG (0.4 mm) wire		
Ringing Load Capacity	10 REN total; 5 per line		
Provisionable High Loop Current Mode	Yes (40mA constant current source)		
Telcordia™ GR 1089 Tested	Yes		
Programmable Country Interface	Yes (support for multiple country templates)		
RF Downstream			
Frequency Range (MHz)	108-1002 (edge-to-edge)		
Bonded Channels	Up to 24		
Tuner Configuration	Full capture tuning range		
Modulation (QAM)	64 or 256		
Data Rate (Theoretical)	Up to 1.03 Gbps		
RF Input Sensitivity Level (dBmV)	-15 to +15		
Carrier Bandwidth	6 MHz		
MoCA® Immunity Filter	Yes		
RF Upstream			
Frequency Range (MHz)	5-42 (A/NA, G/NA) or 5-85 (G/NA-85 versions)		
Bonded Channels	Up to 8		
Modulation	QPSK, 8QAM, 16QAM, 32QAM, 64QAM, 128QAM (S-CDMA only)		
Modulation Bandwidth (KHz)	TDMA: 200, 400, 800, 1600, 3200, 6400 S-CDMA: 1600, 3200, 6400		
Data Rate (Mbps, Theoretical)	up to 240*		

For information on additional SURFboard products, please visit www.SURFboard.com

For product support please visit www.arris.com/consumers

*Max raw DOCSIS rate; actual throughput is less due to overhead, configuration, and RF conditions. Max Rate may also be limited by service level.

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