SURFboard™
High-Speed Cable Modems

ARRIS™

SB8200
DOCSIS 3.1 Ultra Fast Cable Modem

Energy Efficient Ethernet

FEATURES:

- 2x2 OFDM/ OFDMA DOCSIS® 3.1 channels and/or 32x8 SCQAM DOCSIS® 3.0
- 1.2 GHz Full Capture Bandwidth Tuner
- Multi Processor Technology with ARM based Application Processor
- Dual Gigabit Ethernet Ports with Auto Negotiate and Auto MDIX
- Switchable upstream filters for 42 MHz or 85MHz operation
- Switchable downstream filters for 85MHz or 108MHz with option for 258MHz and an upper edge of 1218MHz
- US and DS spectrum analyzer
- LEDs indicate DOCSIS 3.0 or DOCSIS 3.1 Operation
- Color coded Rear Panel for ease of installation
- ARRIS Consumer Support via Phone, Email, and Chat
- PNM based network monitoring and diagnosis for Service Provider troubleshooting

PRODUCT OVERVIEW:

SB8200 supporting DOCSIS 3.1 allows unprecedented data rates to be delivered to Retail consumers. The SB8200 is designed to easily deploy Gigabit+ data services. Switchable US and DS filters are designed to produce superior RF performance while reducing interference in the home network and allowing the flexibility required for the Cable Operators to transition from DOCSIS 3.0 to DOCSIS 3.1. Increased DRAM and Flash allow new applications to be deployed on the modem. This feature-packed unit is intended to serve as the hub of the subscribers network, connecting all IP capable devices (Internet, Data, Voice and Video) throughout the customers premises.
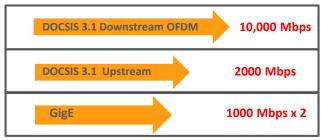
Residential and Small Business High Speed Data Customers often opt to purchase and control their own network devices, avoiding Cable Operator modem lease fees. With the SB8200, consumers can leverage the newest technology and highest data rates offered by their Service Providers. The SB8200 is backward compatible to the highest DOCSIS 3.0 speeds possible, allowing a purchaser to 'future proof' their purchase with the best DOCSIS 3.0 speeds until the Service providers upgrade their network technology to offer DOCSIS 3.1 service.

The SB8200 will help lead the future to advanced home and small office services.

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DOCSIS3.1 Cable Modem

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Interface Speeds

DOCSIS 3.1 Downstream OFDM	**10,000 Mbps**
DOCSIS 3.1 Upstream	**2000 Mbps**
GigE	**1000 Mbps x 2**

Specifications

Physical

Operating Temperature ˚C	0 to 50
Operating Relative Humidity	5-85% (Non condensing)
Storage Temperature ˚C	-40 to 70
Dimensions (H x W x D) in.	5.24" x 5.24" x 1.65"
Weight lbs	2.1
Diagnostic LED's (Front)	Power, US/DS, Online,
Diagnostic LED's (Rear)	Ethernet Link/Speed

Interfaces

RF Interface	1 External 'F' type connector
Data Interfaces (bridged)	2 x 10/100/1000 Base-T Ethernet (RJ-45 connector)
Home port	
Input Voltage (nominal)	115VAC, 60 Hz

RF Downstream

Bonded Channels	Up to 32 SCQAM or 2 OFDM
Tuner Configuration Configurable Diplex Filter	Full capture tuning range 108MHz-258MHz
Frequency Range (MHz)	108MHz-1218MHz DOCSIS
DOCSIS Data Rate (Mbps Max.)	10 Gbps
RF Input Sensitivity Level (dBmV)	-15 to +15 (DOCSIS)

RF Upstream

Bonded Channels	Up to 8 SCQAM or 2 OFDMA
Frequency Range (MHz) Configurable Diplex Filter	5 MHz to 85 MHz 42MHz-85MHz
Data Rate (Mbps Max.)	Over 2 Gbps
RF Output Level (dBmV)	+65 dBmV (64 QAM, single upstream) +57dBmv (64QAM, 4-8 upstreams) +65dBmV (16 QAM, single upstreams)

Compliance

Certification	Compliant Class B Digital Device – Part 15 of the Federal Communications Commission (FCC), DOCSIS 3.1
Environmental	RoHS, Energy Efficient Ethernet, CeC, Pb-Free, Compliant with SNE Voluntary Environmental Agreement

Ordering Information

Model	Description	Part Number
SB8200	DOCSIS3.1 Cable Modem	1000205

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

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