



Energy Efficient

## SB8200 DOCSIS 3.1 Ultra Fast Cable Modem

## **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:

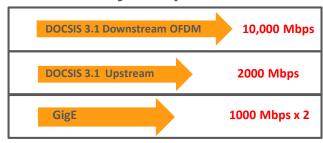
SB8200 supporting DOCSIS 3.1 allows unprecedented data rates to be delivered to Retail consumers. The SB8200 is designed to easily deploy Gigabit+ data services. Switchable US and DS filters are designed to produce superior RF performance while reducing interference in the home network and allowing the 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.



## **Interface Speeds**



	Speci	fications		
Physical		RF Upstream		
Operating Temperature °C Operating Relative Humidity Storage Temperature °C Dimensions (H x W x D) in. Weight lbs Diagnostic LED's (Front)	0 to 50 5-85% (Non condensing) -40 to 70 5.24" x 5.24" x 1.65" 2.1 Power, US/DS, Online,	Bonded Channels Frequency Range (MHz) Configurable Diplex Filter Data Rate (Mbps Max.) RF Output Level (dBmV)		Up to 8 SCQAM or 2 OFDMA 5 MHz to 85 MHz 42MHz-85MHz Over 2 Gbps +65 dBmV (64 QAM, single upstream) +57dBmv (64QAM, 4-8 upstreams) +65dBmV (16 QAM, single
Diagnostic LED's (Rear)  Interfaces	Ethernet Link/Speed	Compliance		upstreams)
RF Interface Data Interfaces (bridged)	1 External 'F' type connector 2 x 10/100/1000 Base-T Ethernet (RJ-45 connector)	Compliance Certification  Environmental		Compliant Class B Digital Device – Part 15 of the Federal Communications Commission (FCC
Home port Input Voltage (nominal)	115VAC, 60 Hz			DOCSIS 3.1 RoHS, Energy Efficient Ethernet,
RF Downstream Bonded Channels	Up to 32 SCQAM or 2 OFDM			CeC, Pb-Free, Compliant with SNE Voluntary Environmental Agreement
Tuner Configuration Configurable Diplex Filter	Full capture tuning range 108MHz-258MHz	Ordering Information  Model Description		
Frequency Range (MHz)  DOCSIS Data Rate (Mbps Max.)	108MHz-1218MHz DOCSIS 10 Gbps			Part Number
RF Input Sensitivity Level (dBmV)	-15 to +15 (DOCSIS)	SB8200	DOCSIS3.1 Cable	1000205

Modem

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

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

Copyright Statement: © 2016 ARRIS Enterprises LLC. All rights reserved. No part of this publication may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from ARRIS Enterprises, LLC ("ARRIS"). ARRIS reserves the right to revise this publication and to make changes in content from time to time without obligation on the part of ARRIS to provide notification of such revision or change. ARRIS, SURFboard and the ARRIS logo are all registered trademarks of ARRIS Enterprises, LLC. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks or the names of their products. ARRIS disclaims proprietary interest in the marks and names of others.

Note: The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.