

S33

DOCSIS 3.1 Ultra Fast Cable Modem



FEATURES:

- Supports DOCSIS 3.1 and DOCSIS 3.0 technology
- 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
- One 2.5 Gb Ethernet port and one 1 Gb Ethernet port with Auto Negotiate and Auto MDIX
- Switchable upstream filters for 42 MHz or 85 MHz operation
- US and DS spectrum analyzer
- LEDs indicate DOCSIS 3.0 or DOCSIS 3.1 Operation
- ARRIS Consumer Support via Phone, Email, and Chat



PRODUCT OVERVIEW:

S33 supporting DOCSIS 3.1 allows unprecedented data rates to be delivered to Retail consumers. The S33 is designed to easily deploy Gigabit+ data services. Switchable US filters are designed to allow the ISP to configure the range needed to support the consumers' level of service and provides the flexibility required for the Cable Operators to transition from DOCSIS 3.0 to DOCSIS 3.1. 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 S33, consumers can leverage the newest technology and highest data rates offered by their Service Providers. The S33 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 S33 will help lead the future to advanced home and small office services.

Interface Speeds

DOCSIS 3.1 Downstream OFDM	10,000 Mbps
DOCSIS 3.1 Upstream	2000 Mbps
GigE	2500 Mbps x 1 + 1000 Mbps x 1

Specifications

Physical

Operating Temperature °C	0 to 40
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 in Lbs (with packaging)	1.52lbs
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	1 x 10/100/1000 and 1 x 10/100/1000/2500 Base-T Ethernet (RJ-45 connector)
Input Voltage (nominal)	115VAC, 60 Hz

RF Downstream

Bonded Channels	Up to 32 SCQAM and 2 OFDM
Tuner Configuration	Full capture tuning range
Frequency Range (MHz)	108 MHz-1002 MHz DOCSIS
DOCSIS Data Rate (Gbps Max.)	Up to 10 Gbps
RF Input Sensitivity Level (dBmV)	-15 to +15 (DOCSIS)

RF Upstream

Bonded Channels	Up to 8 SCQAM and 2 OFDMA
Frequency Range (MHz)	5 MHz - 42 MHz or 5 MHz - 85 MHz
Configurable Diplex Filter	
Data Rate (Mbps Max.)	Upto 3.5 Gbps
RF Output Level (dBmV)	+65 dBmV (64 QAM, single upstream) +57dBmV (64QAM, 4-8 upstreams) +65dBmV (16 QAM, single upstream)

Compliance

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

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

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

© 2018 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. All rights reserved. . 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. ARRIS provides this guide without warranty of any kind, implied or expressed, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. ARRIS may make improvements or changes in the product(s) described in this manual at any time. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.