

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<br>+ 1000 Mbps x 1 |

## Specifications

|                                   |                                                                            |                            |                                                                                                           |
|-----------------------------------|----------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Physical</b>                   |                                                                            | <b>RF Upstream</b>         |                                                                                                           |
| Operating Temperature °C          | 0 to 40                                                                    | Bonded Channels            | Up to 8 SCQAM and 2 OFDMA                                                                                 |
| Operating Relative Humidity       | 5-85% (Non condensing)                                                     | Frequency Range (MHz)      | 5 MHz - 42 MHz or 5 MHz - 85 MHz                                                                          |
| Storage Temperature °C            | -40 to 70                                                                  | Configurable Diplex Filter |                                                                                                           |
| Dimensions (H x W x D) in.        | 5.24" x 5.24" x 1.65"                                                      | Data Rate (Mbps Max.)      | Upto 3.5 Gbps                                                                                             |
| Weight in Lbs (with packaging)    | 1.52lbs                                                                    | RF Output Level (dBmV )    | +65 dBmV (64 QAM, single upstream)<br>+57dBmV (64QAM, 4-8 upstreams)<br>+65dBmV (16 QAM, single upstream) |
| Diagnostic LED's (Front)          | Power, US/DS, Online                                                       |                            |                                                                                                           |
| Diagnostic LED's (Rear)           | Ethernet Link/Speed                                                        |                            |                                                                                                           |
| <b>Interfaces</b>                 |                                                                            | <b>Compliance</b>          |                                                                                                           |
| RF Interface                      | 1 External 'F' type connector                                              | Certification              | Compliant Class B Digital Device – Part 15 of the Federal Communications Commission (FCC), DOCSIS 3.1     |
| Data Interfaces                   | 1 x 10/100/1000 and 1 x 10/100/1000/2500 Base-T Ethernet (RJ-45 connector) | Environmental              | RoHS, Energy Efficient Ethernet, Pb-Free, Compliant with SNE Voluntary Environmental Agreement            |
| Input Voltage (nominal)           | 115VAC, 60 Hz                                                              |                            |                                                                                                           |
| <b>RF Downstream</b>              |                                                                            |                            |                                                                                                           |
| 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)                                                        |                            |                                                                                                           |

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