SURFboard®

ARRIS™

SBG10

DOCSIS 3.0 Consumer Series Wireless Cable Modem

FEATURES:

- 16 x 4 DOCSIS Channel Bonding for fast DOCSIS® 3.0 download speeds.
- AC1600 Dual Band Concurrent Wi-Fi using 802.11ac Wave 2 technology
- Supported with ARRIS SURFboard Manager Mobile App for connection and management
- Multiple 4k and HD video streams easily supported
- Multi Processor Technology with a 1.2GHz Intel Atom Core Application Processor
- DOCSIS® 3.0 Certified
- 2 port Gigabit Ethernet Router with AC1600 Wi-Fi®
- Energy Efficient Ethernet support
- Integrated Multi-User MIMO Antennas, 2x2 arrays for both radio bands
- Band-steering for optimal radio connections

PRODUCT OVERVIEW:

With High Speed Internet service up to 686 Mbps, the ARRIS SURFboard® SBG10 delivers speeds and performance to meet the new bandwidth services. With broad range, high power Wi-Fi capability; using dual band concurrently operating radios that support the technology of 802.11ac Wave 2, you have a complete home networking package. This feature-packed unit is intended to serve as the hub of the home or small business network, connecting all IP capable devices (Internet, Data, and Streaming Video) throughout the premises.

Product Highlights

Easy to Setup and Use

• Plug-and-play installation, use the SURFboard Manager App on your mobile device for management (including remote management when you are away from home)

• Default settings for recommended Security and Quality of Service protection supports standard Internet browser software

• Front panel status LEDs indicate connectivity and simplify troubleshooting, include a management feature to disable them to limit room light saturation.

• User-friendly online or mobile app based diagnostics and configuration

Advanced Services Ready

• DOCSIS 3.0

• Channel bonding of up to sixteen downstream and four upstream channels

• Internet connectivity in the received (downstream) data stream of over 686 Mbps and over 131 Mbps in the send (upstream) data stream

• 108 -1002 MHz Full Capture Bandwidth Tuner

• Supports both IPv4 and IPv6

• Integrated 2.4 GHz 802.11n and 5 GHz 802.11ac Wi-Fi® access point, concurrent radio operation with 802.11ac Wave 2

• MU-MIMO antenna arrays offer performance benefits for wireless LAN (WLAN) access points

• Two 1 Gb Ethernet ports enable flexible, high-speed connectivity with Auto Negotiate and Auto MDIX

• Support for Multicast IP services

Reliable and Secure

• WPA/WPA2 Wi-Fi® security

• Enhanced security: supports AES traffic encryption

Benefits

• Cost effective Cable Modem with Wi-Fi 802.11ac wireless technology, supporting 1600Mbps Wi-Fi throughput

• Supported by ARRIS's highly rated Consumer Support Team

SURFboard® SBG10

Interface Speeds

Wi-Fi	1600Mbps
DOCSIS Downstream	640Mbps
DOCSIS Upstream	120Mbps
Ethernet	1000Mbps x2

SPECIFICATIONS

Physical

Operating Temperature	0 to 40°C
Operating Relative Humidity	5-85% (Non condensing)
Storage Temperature	-40 to 70°C
Dimensions (H x D x W)	6.58" x 1.97" x 6.77"
Weight	1.44lbs
Diagnostic LED's (Front)	Power, US/ DS, Online, 2.4GHz, 5GHz, WPS
Diagnostic LED's (Rear)	Ethernet Link

RF Downstream

Bonded Channels	Up to 16 SC-QAM channels
Tuner Configuration	Full capture tuning range
Frequency Range (MHz)	108MHz - 1002MHz DOCSIS
Data Rate* (Mbps Max.)	Up to 640Mbps
RF Input Sensitivity Level	-15dBmV to +15dBmV (DOCSIS)

RF Upstream

Bonded Channels	Up to 4 SC-QAM channels
Frequency Range	5MHz to 42 MHz
Data Rate* (Mbps Max.)	Up to 120mbps
RF Output Level	+57 dBmV(64QAM, single upstream) +54 dBmV(64QAM, 4 upstream) +58 dBmV(16QAM, single upstream) +56 dBmV(SCDMA, single upstream)

SPECIFICATIONS

Interfaces

RF Interface	1 External 'F' type connector
Date Interfaces (bridged)	2 x 10/100/1000 Base-T Ethernet (RJ-45 connector) MDI /MDI-X
Input Voltage (nominal)	12V DC
AC-DC	External

Wireless

Frequency Range	2.4GHz and 5GHz
Wireless	802.11ac Wave 2 AC1600
Antennas: Spatial Streams	2.4 GHz 2x2:2 5 GHz 2x2:2

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

For information on additional SURFboard products, including McAfee Secure Home Internet please visit www.SURFboard.com

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