

SBG7600AC2

DOCSIS 3.0 Consumer Series Wireless Cable Modem

FEATURES:

- 32 x 8 DOCSIS Channel Bonding for fast DOCSIS® 3.0 download speeds.
- ARRIS Secure Home Internet Service by McAfee included
 - Also includes a free trial of McAfee LiveSafe client protection
- Supported with ARRIS SURFboard Manager Mobile App for connection and management
- Multiple 4k and HD video streams easily supported
- Multi Processor Technology with a 600 MHz Intel Atom® Core Application Processor
- Internal 32 bit Data architecture for maximum speeds
- 4 port Gigabit Ethernet Router with Wi-Fi®
- Integrated Multi-User MIMO Antennas for each band, 4x4 array for 5 GHz radio and 3x3 array for 2.4 GHz radio
- Bandsteering available for optimal radio connections
- Dual Band Concurrent Wi-Fi 2.4 GHz 802.11n and 5 GHz 802.11ac wave 2 High Power Radios with wireless throughput of up to 2,350 Mbps
- USB 2.0 Host Port with support for NAS Drive, Media Server, or other device connection
- WPS for quick client connection



PRODUCT OVERVIEW:

With High Speed Internet service offerings reaching 1.2 Gbps, the ARRIS SURFboard® SBG7600AC2 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 two, 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)
- Wi-Fi® pairing button for easy Wi-Fi Protected Setup™ (WPS) Wi-Fi connection
- 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 thirty two downstream and eight upstream channels
- Internet connectivity in the received (downstream) data stream of over 1.4 Gbps and over 260 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 two Multi-User MIMO support
- 3x3 and 4x4 MU-MIMO antenna arrays offer performance benefits for wireless LAN (WLAN) access points
- Powerful High-gain Wi-Fi® output added for optimized throughput over a greater range
- Four 1 Gb Ethernet ports enable flexible, high-speed connectivity with Auto Negotiate and Auto MDIX
- Support for Multicast IP services
- USB 2.0 Host port with support for multiple file transfer protocols and a file structure that prevents harm to your transferring files from unexpected crashes

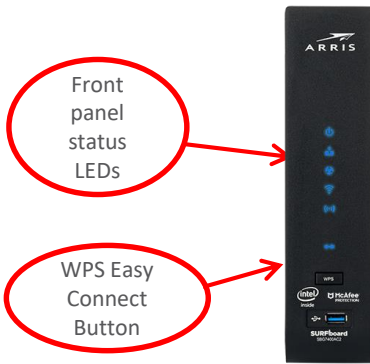
Reliable and Secure

- WPA/WPA2 Wi-Fi® security
- Enhanced security: supports AES traffic encryption

Benefits

- Top of the line Cable Modem Wireless Access Point using 802.11ac wireless technology, supporting 2350 Mbps throughput
- Supported by ARRIS's highly rated Consumer Support Team
- Includes free of charge Secure home Internet powered by McAfee with a protected connection for all of your home network.
- Includes a 90 day free trial for McAfee LiveSafe client based virus protection and remote parental control.

SURFboard® SBG7600AC2



Interface Speeds

Wi-Fi	2350Mbps
DOCSIS Downstream	1029Mbps
USB2.0	480Mbps
DOCSIS Upstream	240Mbps

SPECIFICATIONS

Physical

Operating Temperature	0 to 50°C
Operating Relative Humidity	5-85% (Non condensing)
Storage Temperature	-40 to 70°C
Dimensions (H x D x W)	9.5" x 2.25" x 7.69
Weight	1.94lbs 0.88kg
Diagnostic LED's (Front)	Power, US/ DS, Online, 2.4GHz, 5GHz, WPS
Diagnostic LED's (Rear)	Ethernet Link/Speed

RF Downstream

Bonded Channels	Up to 32 SC-QAM channels
Tuner Configuration	Full capture tuning range
Frequency Range (MHz)	108MHz - 1002MHz DOCSIS
Data Rate* (Mbps Max.)	Up to 1.23 Gbps
RF Input Sensitivity Level	-15dBmV to +15dBmV (DOCSIS)

RF Upstream

Bonded Channels	Up to 8 SC-QAM channels
Frequency Range	5MHz to 42 MHz
Data Rate* (Mbps Max.)	Up to 240 Mbps
RF Output Level	+65 dBmV (64 QAM, single upstream) +57 dBmV (64 QAM, 4-8 upstreams) +65 dBmV (16 QAM, single upstream)

SPECIFICATIONS

Interfaces

RF Interface	1 External 'F' type connector
Ethernet Interfaces (bridged)	4 x 10/100/1000 Base-T Ethernet (RJ-45 connector) MDI /MDI-X
USB 2.0, powered	DLNA, NAS, Printers, Media Servers
Input Voltage (nominal)	12V DC
AC-DC	External

Wireless

Frequency Range	2.4GHz and 5GHz
Spatial Streams	3 for 2.4GHz, 4 for 5GHz
Wireless	802.11ac wave 2 AC2350
Antennas	2.4 GHz 3x3:3 5 GHz 4x4:4

*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

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