

SBG7580-AC

DOCSIS 3.0 Consumer Series Wireless Cable Modem with McAfee Secure Home Internet

FEATURES:

- 32x8 DOCSIS Channel Bonding for the best DOCSIS® 3.0 download speeds available
- Capable of greater 1Gbps Downstream Throughput for the fastest gaming ever
- Multiple 4k and HD video streams easily supported
- Multi Processor Technology with a 1.2GHz Intel Atom® Core Application Processor
- Internal 32 bit Data architecture for maximum speeds
- 4 port Gigabit Ethernet Router with Wi-Fi®
- 3x3 Integrated Dual Band Concurrent 2.4GHz 802.11n and 5GHz 802.11ac High Power Radios with wireless throughput of up to 1,750Mbps
- Optimized internal MIMO antennas to eliminate frustrating alignment requirements and the potential for breakage
- WPS for quick client connection
- USB 2.0 port supporting connected hard drives with SAMBA, and DLNA Media Sharing (it can charge your USB cabled devices as well)
- Internal Power Supply, no more lost or mismatched power bricks
- Integrated Internet Security covering all connected devices, powered by the McAfee Global Threat Intelligence

PRODUCT OVERVIEW:

With High Speed Internet service offerings reaching 1Gbps and higher, the ARRIS SURFboard® SBG7580-AC delivers speeds and performance to meet the new bandwidth services. Adding in the broad range, high power, Wi-Fi capability with dual band radios and the technology of 802.11ac and you have a complete home networking product. 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, Voice and Video) throughout the premises while also providing protection from malicious intent.



Product Highlights

Easy to Setup and Use

- Plug-and-play installation
- 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, multicolor LEDs indicate status and simplify troubleshooting, now with a feature to disable to control brightness levels
- User-friendly online diagnostics and configuration
- Manage your device and network with the ARRIS SURFboard Manager App available for iOS and Android
- Manage your Secure Home Internet with the SecureInternet App under ARRIS in the App stores.
 - Also provide network status notifications, parental controls, Internet Access on/off, and much more
 - 90 day trial of McAfee LiveSafe to provide extended management and protection per device both on and away from the home network.

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 1Gbps and over 240Mbps in the send (upstream) data stream
- 1GHz-capable tuner
- Best-in-class RF Immunity, built into SURFboard products since 2006, protects against potential service impacting interference
- Supports both IPv4 and IPv6
- Compatible with SURFboard RipCurrent Gigabit Network Extenders for transporting Internet signals via the AC Power Lines (requires minimum of 2 external adapters)
- Backwards compatible to 802.11a/b/g/n
- Integrated 2.4GHz 802.11n and 5GHz 802.11ac Wi-Fi® access point, concurrent radio operation
- 3x3 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 1Gb Ethernet ports enable flexible, high-speed connectivity with Auto Negotiate and Auto MDIX
- Support for Multicast IP services
- Support for multiple Guest SSIDs for segregated networks
- MoCA® reject filter ensures care-free interoperation between MoCA and DOCSIS
- Internal power supply eliminates bulky transformers

Reliable and Secure

- WPA/WPA2 Wi-Fi® security
- Advanced firewall with DoS protection and intrusion prevention
- Enhanced security: supports AES traffic encryption

Benefits

- Top of the line Cable Modem Wireless Access Point with best in class wireless throughput, reach, range, and robustness
- Supported by ARRIS's highly rated Consumer Support Team

SURFboard® SBG7580-AC



ARRIS



4 ports
10/100/1000

Internal
Power
Supply

Interface Speeds

Wi-Fi®	1750 Mbps
DOCSIS® Downstream	1280 Mbps
USB 2.0	480 Mbps
DOCSIS® Upstream	240 Mbps

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)	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 1.28 Gbps
RF Input Sensitivity Level	-15dBmV to +15dBmV (DOCSIS)

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

SPECIFICATIONS

RF Upstream	
Bonded Channels	Up to 8 SC-QAM channels
Frequency Range	5 MHz to 42 MHz
Data Rate* (Mbps Max.)	Up to 240 Mbps

Interfaces	
RF Interface	1 External 'F' type connector
Date 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)	115/220VAC, 50/60Hz

Wireless	
Radios	2.4GHz and 5GHz Concurrent
Wireless	802.11ac wave 2 AC2350
Antennas: Spatial Streams	2.4 GHz 3x3:3 5 GHz 3x3:3
System Transmit Power (2.4GHz)	+29dbm (MCS0), +27.8dbm (MCS7)
System Transmit Power (5GHz)	+34.8dbm (MCS0), +30.8dbm (MCS9)

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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