

SBG7580-AC

DOCSIS 3.0 Consumer Series Wireless Gateway

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 1.2 GHz 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 2.4 GHz 802.11n and 5 GHz 802.11ac High Power Radios with wireless throughput of up to 1,750 Mbps
- 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



PRODUCT OVERVIEW:

With High Speed Internet service offerings reaching 1 Gbps 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.

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

Advanced Services Ready

- DOCSIS 3.0
- Channel bonding of up to thirty two downstream and four upstream channels
- Internet connectivity in the received (downstream) data stream of over 1 Gbps and over 240 Mbps in the send (upstream) data stream
- 1 GHz-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 2.4 GHz 802.11n and 5 GHz 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 1 Gb 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



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 °C	0 to 40
Operating Relative Humidity	5-85% (Non condensing)
Storage Temperature °C	-40 to 70
Dimensions (H x W x D) inches	9.25 x 7.5 x 2.25 (excludes "F" connector)
Weight lbs.	1.4
Diagnostic LED's (Front)	Power, US/DS, Online, 2.4GHz, 5GHz, WPS
Diagnostic LED's (Rear)	Ethernet Link/Speed

Interfaces

RF Interface	External 'F' type connector
Data Interfaces (bridged)	4 x 10/100/1000 Base-T Ethernet (RJ-45 connector)
USB Interface	USB 2.0 Powered Host Port
Input Voltage (nominal)	115/220VAC, 50/60 Hz

RF Downstream

Bonded Channels	Up to 32
Tuner Configuration	Full capture tuning range
Frequency Range (MHz)	108-1002 DOCSIS
Data Rate (Mbps Max.)	Up to 1280
RF Input Sensitivity Level (dBmV)	-15 to +15 (DOCSIS))

RF Upstream

Bonded Channels	Up to 8
Frequency Range (MHz)	5 to 42 MHz
Data Rate (Mbps Max.)	up to 240
RF Output Level (dBmV)	+57 dBmV (64 QAM, single upstream) +54dBmV (64QAM, 4-8 upstreams) +58dBmV (16 QAM, single upstream) +56 dBmV (SCDMA, single upstream)

Wireless

Frequency Range	2.5GHz and 5GHz
System Transmit Power (2.4GHz)	+32dBm (MCS0), +30dbm (MCS7)
System Transmit Power (5GHz)	+32dBm (MCS0), +30dbm (MCS9)
Spatial Streams	3
Receive Levels	2.4GHz - <-90dBm 802.11n (MCS0) , <-69dBm 802.11n (MCS7), HT20 5.0GHz - <-90dBm 802.11ac (MCS0) , <-60dBm 802.11ac (MCS9), VHT80
Antennas (per band)	3 combined transmit and receive

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

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

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