SURFboard®
Router
SBR-AC1750

Features

- Dual-Band Concurrent radios
- MIMO Antenna Arrays
- WAN Input
- LAN Outputs
- USB 2.0
- IPv6 Ready
- HTML User Interface / Control
- Status LEDs
- 2.4 GHz 802.11n and 5 GHz 802.11ac
- 3 transmit and 3 receive per radio band (3x3)
- 5-Port Gigabit Ethernet
- USB port support for connections or charging
- Supports the newest Internet addressing schema with IPv4 and IPv6 support
- Easy setup and configuration changes
- 10 front-panel LEDs for up to the minute device and connection status information
- Energy Efficient Ethernet

Product Overview

A Wireless Access Point / Router ready to establish or improve your in-home (or small business) network. Connect to your Internet Access Device using the Gigbit WAN input to distribute internet connectivity and content throughout your home by connecting your clients to the SBR-AC1750 via one of the two 802.11n/ac radios, using the 4-port Gigabit Ethernet switch, or the USB 2.0 port.

The SBR-AC1750 includes two wireless radios, 2.4 GHZ using 802.11n technology and 5 GHz using 802.11ac technology. Both radios use a 3x3 MIMO antenna array for optimal wireless transmit and receive performance.

This router provides secure connections out of the box, with an option for using WPS to connect to your client devices.

With Dual-Band Concurrent Radios, the SBR-AC1750 can support optimizing your network based on connected client capability. Combined wireless throughput is at 1750 Mbps for blazing fast connections and data transfers.

Gigabit Ethernet connections provide wired access to the router. The 1-port serves as the input to the device from your Internet Access Device, the additional 4-port switch allows each port connection to be independent of the others, and support clients or peripherals.

ARRIS is here to support your device. Customer Support pages on www.arris.com/consumer provide easy to read FAQs as well as access to live support via email, chat, and phone.

GENERAL SPECIFICATIONS

Physical

Enclosure	White
Unit Size	143 x 203 x 44 mm (5.63" x 7.99" x 1.73")
DC Input	12vdc, 2.5A
5-port Ethernet	GigE, 1-WAN (Blue), 4-LAN (Gray)
USB 2.0	On rear
WPS Button	On rear
Reset Button	Recessed, rear panel
10 LEDs	Front panel, device and connection status
Operating Temperature °F (°C)	32 to 104 (0 to 40)
Operating Relative Humidity	5-90% (non-condensing)
Storage Temperature °F (°C)	–4 to 158 (–20 to 70)
Unit Weight in lbs (kg)	0.747 (0.399)
Diagnostic LEDs	Power, WAN, 2.4G, 5G, LAN1, LAN2, LAN3, LAN4, USB, WPS
Wide Area Network (WAN)	One 10/100/1000 Base-T Ethernet RJ-45, Blue, Auto-Sensing, Auto-MDIX
Local Area Network (LAN)	Four 10/100/1000 Base-T Ethernets RJ-45, White, Auto-Sensing, Auto-MDIX
Wi-Fi Network	Dual-band concurrent, 802.11n/ac, 3x3:3 MIMO

Interfaces

USB Interface	One USB 2.0 Series-B receptacle, blue
User Buttons	Wireless Protected Setup (WPS2.0)Reset (press reset or hold 10sec factory restore)
Input Voltage (nominal)	12VDC / 2A via External Power Adapter (included)

User Management

URL Based	
Easy Configuration with setup wizard	
Parental Controls	
Firewall Settings	
Print sharing, file sharing, media sharing / DLNA	

GENERAL SPECIFICATIONS (continued)

Networking

VPN Tunneling Pass-through	IPSEC, PPTP
IPv4 and IPv6 DHCP	Address pool (per subnet)
DNS Server	Primary and secondary
DDNS Firewall	
NAT	
Advanced Traffic Mechanisms	WAN blocking, multicast, UPnP-IDG,
ALG Support	FTP, IRC, PPTP, SIP,
Protection	Port scan, IP flood, enable/disable
Port Forwarding	Start/End, Destination IP Address, Static IP Addresses
DMZ Host	Via IP address

Certifications

FCC	Part 15B and 15C
UL/C-UL	UL60950
Wi-Fi Alliance	WPS version 2.0.1
ICES-003	2/1/2004
RSS-210, RSS-GEN Issue 2	6/1/2007
EnergyStar 1.0	SNE
UPnP	
DLNA	
Wi-Fi Alliance – 802.11a/b/g/n/ac	EISA-2007
FCC Part 15 Classes B, C, and E	RoHS / WEEE
TR-069 / TR-098 / TR-181	USB 2.0
UL® 60950 / cUL / CSA	IEEE 802.3, 802.3ab
Industry Canada ICES-003	WPS 2.0

GENERAL SPECIFICATIONS (continued)

Accessories	
AC Power Supply	
CAT5e Ethernet Cable	WAN input cable
Quick Start Guide	
Warranty and License Document	

Wireless	
5 GHz	802.11ac, 3x3 MIMO antennas
2.4 GHz	802.11n, 3x3 MIMO antennas
Radio Controls	Mode, bandwidth select, channel select, enable/disable
SSIDs	4 per radio
SSID Controls	Enable/disable, name, broadcast, security, radius, WMF
Frequency Range	2.4 and 5GHz operating frequencies
2.4GHz Transmit Power (EIRP in dBm)*	[802.11b 1Mbps] 24 +/-2 [802.11b 11Mbps] 24+/-2 [802.11g 6Mbps] 24 +/-2 [802.11g 54Mbps] 21 +/-2 [802.11n HT20] 22 +/-2 (MCS0); 20 +/-2 (MCS7) [802.11n HT40] 19 +/-2 (MCS0); 19 +/-2 (MCS7)
5.0GHz Transmit Power (EIRP in dBm)*	{802.11a 6Mbps] 22+/-2 [802.11a 54Mbps] 20 +/-2 [802.11n HT20] 22 +/-2 (MCS0); 20 +/-2 (MCS7) [802.11n HT40] 22 +/-2 (MCS0); 20 +/-2 (MCS7) [802.11ac VHT20] 22 +/-2 (MCS0); 19 +/-2 (MCS8) [802.11ac VHT40] 22 +/-2 (MCS0); 18 +/-2 (MCS9) [802.11ac VHT80] 21 +/-2 (MCS0); 17 +/-2 (MCS9)
Spatial Streams	3
2.4GHz Receive Sensitivity (per radio chain in dBm)	[802.11b 1Mbps] > -94 [802.11b 11Mbps] > -86 [802.11g 6Mbps] > -90 [802.11g 54Mbps] > -73 [802.11n HT20] > -90 (MCS0); > -69 (MCS7) [802.11n HT40] > -88 (MCS0); > -67 (MCS7)
5.0GHz Receive Sensitivity (per radio chain in dBm)	[802.11a 6Mbps] > -90 [802.11a 54Mbps] > -72 [802.11n HT20] > -89 (MCS0); > -69 (MCS7) [802.11n HT40] > -86 (MCS0); > -67 (MCS7) [802.11ac VHT20] > -89 MCS0); > -65 (MCS8) [802.11ac VHT40] > -86 (MCS0); > -60 (MCS9) [802.11ac VHT80] > -84 (MCS0); > -57 (MCS9)
Antennas	3 Transmit and 3 Receive per band (all internal)
Number of SSIDs Supported	4 per band (1 public and 3 private)
Number of Guest SSIDs Supported	4 per band
Max Theoretical Wi-Fi Throughput	1750 Mbps
Wi-Fi Security Modes	WPA2, WPA/WPA2, WPA2-Enterprise

*Note: Where multiple transmission paths are implemented, the requirements apply to the combined radiated power of all antennae sources and where the power from each source is contributing equally to the effective total power output.

Note: Specifications are subject to change without notice.