SURFboard™

SBR-AC3200P

Whole Home Access Point With *Rip*Current™

Features:

- Includes embedded SURFboard RipCurrent to use your existing power lines in any room as a network connection
- Internet Access information at your fingertips anywhere you have a client
- Extend your wired network for secure, steady connections that off-load your Wi-Fi traffic
- Extend your Wireless network to eliminate poor reception areas
- Video streaming multiple sources to multiple screens without aggravating delays
- Gaming from remote wired connection, how good does that get…
- Connect your phones to Wi-Fi for faster downloads
- Place and View security cameras from anywhere in the home
- Access Facebook from your patio with Gigabit Home Networking
- Tweet over Wi-Fi from the garage, saving on those 4G data charges
- Automatically connect to the right radio for the device's capability, no Wi-Fi slow down due to older technology connections
- Set up additional, isolated, networks for your guests (OK, we mean your kids' friends) to use.
- To access our technology product offerings go here: www.SURFboard.com

Product Overview

The SURFboard SBR-AC3200P is more than just a Wi-Fi Router. This advanced Access Point is the start of a new home network experience. The SBR-AC3200P routes data via multiple technologies.

- Tri-band concurrent 802.11ac radios, two for the 5 GHz band and one for the 2.4 GHz band (802.11n with support for 256 QAM), providing automatically directed client connections for optimal Wi-Fi connectivity and speed based on a client's capability. Each radio includes 3x3 MIMO antenna arrays for the best reach, range, and throughput.

- Four Gigabit Ethernet ports for ultra-fast wired connectivity.
- RipCurrent Gigabit Home Networking via power lines, ready to connect to up to 15 extenders to reliably take your network to the farthest reaches of your environment.
- Two USB ports, one USB 3.0 and one USB 2.0, for data and media storage or transfer, print sharing, and device charging.

The SBR-AC3200P is an Access Point / Router ready to establish or improve your home or business network. Using the compelling and aesthetically-designed SBR-AC3200P to connect to your Internet Access Device with the Gigabit WAN input, you add true Whole Home Networking capability. Distribute internet connectivity and content throughout your home by connecting your clients to the SBR-AC3200P via one of the three wireless radios, or via the internal 4-port Gigabit Ethernet switch. Connect the whole home via the embedded RipCurrent technology using the home electrical wiring and a HomeGrid Network Extender. Connect your content devices to the network using the USB 3.0 or USB 2.0 ports.

Connecting your SBR-AC3200P is Quick and Easy.

- Find an open AC outlet and connect the power. No need to find space for a clumsy power adapter.
- Connect and Go with a WAN input cable (included) and a LAN output cable (not included).
- Use the Quick Install Wizard accessed with your connected browser to set up your wireless network and management security.
- Never worry about antenna adjustment again. SURFboard antennas are internal to the device, with optimized orientation for MIMO arrays. The internal design removes the potential for antenna breakage.
- Use the QR code on the bottom of the unit for Wi-Fi Quick Connect of your Android or Apple devices.
- Use the WPS button on rear of the unit for Wi-Fi connections to WPS enabled devices.
- Use the SURFboard defaults for recommended settings, or customize your advanced settings to your desired configuration.
- Defaults select the appropriate radio to connect a device to for optimal performance on higher end clients. Examples:
  - 802.11n 1x1 phone connect to SBR-AC3200P 2.4 GHz radio.
  - 802.11ac 1x1 tablet connect to SBR-AC3200P 5 GHz Low Band radio.
  - 802.11ac 3x3 client connect to SBR-AC3200P 5 GHz High Band radio.
  - Client devices with a poor connection move from 802.11ac 5 GHz High Band to Low Band to minimize impact to other High Band users.
- Connect to the USB ports to attach NAS storage for data or media.
- Plug in RipCurrent Gigabit Home Network extenders at any AC outlet, no new wires needed. More outlets in the home and outlets in every room for flexible placement of extenders.
- Connect to RipCurrent Extenders with pushbutton pairing.

Fast and Safe USB

The SURFboard SBR-AC3200P accelerates your USB connection using a unique File Storage System. This same USB File Storage Architecture protects your data from corruption due to interrupted file transfers, i.e., it is always safe to remove your device.

The SBR-AC3200P USB ports support DLNA 1.5, Digital Media Server, and SAMBA for NAS Drive support
Use the USB ports for a charging connection to mobile devices up to 900mA at 5v.

RipCurrent Gigabit Home Networking (G.hn)

The SBR-AC3200P connects to the home AC power grid via the power cable connected to the Router.

G.hn is an ITU Specification managed by the HomeGrid Forum (for more information on the technology see www.homegridforum.org/). Using this technology the SBR-AC3200P can distribute all data to each of the home's AC power outlets. With a corresponding G.hn Extender the Wi-Fi or wired network can be extended to any room, including basements, garages, far reaching bedrooms, even outdoor living spaces. Connect entertainment devices, security cameras, gaming consoles, managed appliance, anything that uses IP (Internet Protocol).

The G.hn technology is more robust than previous home power line communication implementations, this robustness translates into better 'real world' throughput and stability. G.hn also proves much more efficient in an environment with multiple power line networks (apartment buildings, office buildings, etc.) with the capability of recognizing up to 250 other networks to avoid interference. G.hn communications are encrypted using the advanced standard AES 128-bit encryption for secure transmissions.

More electronic devices will be incorporating G.hn into their home networking capability, allowing direct connect to the power line Internet Access through the SBR-AC3200P, without the need for an additional adapter. These devices include TVs, refrigerators, electric car chargers, water heaters, and other manageable electronics.

FEATURES

- Works with Cable, DSL, and Satellite Internet High Speed Data Services using a Gigabit Ethernet WAN input for direct connection to your modem
- 5 GHz High Band 802.11ac radio
- 5 GHz Low Band 802.11ac radio
- 2.4 GHz 802.11n radio with support for 802.11ac (MCS9) 256 QAM
- Each radio employs a 3 x 3 MIMO antenna array (3 transmit / 3 receive antennas per radio)
- Consumer support on-line, phone, or email
- IPv6 compatible
- Four Gigabit Ethernet ports
- Embedded G.hn power line communications

FEATURES (continued)

- One USB 3.0 port
- One USB 2.0 port
- Easy Web based software upgrades
- Easily managed software upgrades
- Internal power supply
- Internal antenna arrays
- Status LEDs
- WPS Wi-Fi pairing button
- G.hn pairing button
- Energy efficient Ethernet 802.3az
- HTML user interface

SBR-AC3200P

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GENERAL SPECIFICATIONS

Wireless

5 GHz	802.11a/n/ac
2.4 GHz	802.11n to 802.11b/g/n/ also supporting 802.11ac 256 QAM
Radio Controls	Mode, bandwidth select, channel select, enable/disable
SSIDs	4 per radio
SSID Controls	Enable/disable, name, broadcast, security, Radius, WMF
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 Wi-Fi throughput	3200 Mbps
Wi-Fi Security Modes	WPA2, WPA/WPA2, WPA2-Enterprise

Router

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

G.hn PLC

G.hn	ITU-T G.hn baseband plans for 25.50, and 100 MHz + MIMO
G.hn Max Throughput	1 Gbps
Encryption	AES 128-bit
Modulation	OFDM, FEC
Max G.hn Nodes	16
Network Awareness	250 domains

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
UL® 60950 / cUL / CSA	IEEE 802.3, 802.3ab
Industry Canada ICES-003	WPS 2.0
HomeGrid G.hn PLC	

GENERAL SPECIFICATIONS (continued)

Physical

Enclosure	White
Unit Size	299mm x 149mm x 71mm
5-port Ethernet	GigE, 1-WAN (Blue), 4-LAN (Gray)
Wi-Fi Power On/Off	On top
USB 3.0 (Blue)	0.9A max
USB 2.0 (Black)	0.5A max
WPS Button	G.hn pairing
Reset Button	Recessed, rear panel
Primary LED	Front panel: power, operation mode, Wi-Fi disabled, WPS pairing
11 Secondary LEDs	Rear Panel: WAN / LAN activity, G.hn active and status, Wi-Fi, USB activity
Operating Temperature	32 °F to 104 °F (0°C to 40°C)
Operating Relative Humidity	5-90% (non-condensing)
Storage Temperature	−4 °F to 158°F (−20 °C to 70°C)
Unit Weight in lbs (kg)	2.2 lbs (1.0 kg)
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, Gray, auto-sensing, auto-mdix
Wi-Fi Network	Tri-band concurrent, 802.11ac, 3x3 MIMO
Input voltage	100VAC ~ 240VAC 50Hz/60Hz

Interfaces

USB 3.0	One USB 3.0 (blue connector)
USB 2.0	One USB 2.0
User buttons	Wireless protected setup (WPS2.0) Reset (press reset or hold 10sec factory restore)

User Management

URL based
Easy Configuration with setup wizard
Parental controls
Firewall settings
Print sharing, file sharing, media sharing / DLNA

Accessories

AC power cable	
Cat5e Ethernet cable	WAN input cable
Quick Start Guide	
Warranty and License document	

Complimenting Products

To take advantage of the SBR-AC3200P RipCurrent G.hn power line networking capability consider adding complimenting G.hn power line Extenders.

SURFboard SBX-1000P,

RipCurrent Gigabit Home Networking Extender for wired connectivity

• Ideal for gaming, desktop PC, or TV connections

• Off loads Wi-Fi Network for improved performance

  • AC wall plug mount

  • Easy pairing to the SBR-AC3200P

  • Gigabit Ethernet LAN port

  • LEDs for status

  • HTTP User Interface for management

SURFboard SBX-AC1200P,

RipCurrent Gigabit Home Networking Extender with Wi-Fi

• Take your wireless network where it's never been before

• Eliminates 'Dead Zones'

• Improves Wi-Fi Connectivity

  • AC wall plug mount

  • Easy pairing to the SBR-AC3200P

  • 5 GHz 802.11ac radio with 2 x 2 MIMO antenna array

  • 2.4 GHz 802.11n radio with 2 x 2 MIMO antenna array

  • Automated wireless configuration to match existing home network

  • Allows client roaming for best reception

  • Gigabit Ethernet LAN port

  • LEDs for status

  • HTTP User Interface for management

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Note: Specifications are subject to change without notice.