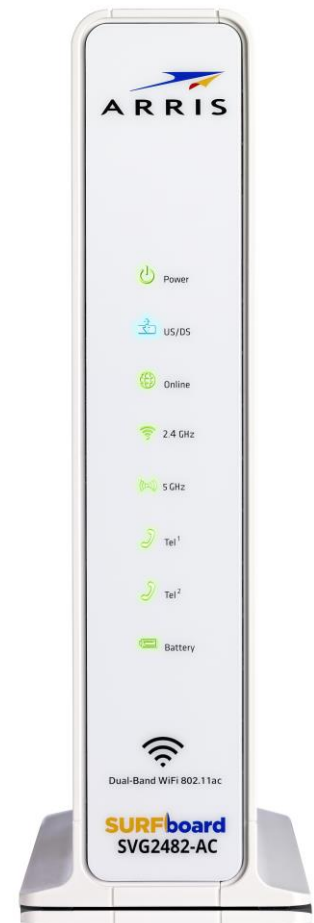


## SVG2482AC

# DOCSIS 3.0 Consumer Series Wireless Gateway with Voice for XFINITY Services

### FEATURES:

- 24 x 8 DOCSIS Channel Bonding for fast DOCSIS® 3.0 download speeds.
- Capable of greater 1Gbps Downstream Throughput<sup>1</sup> for gaming speeds that rule.
- 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
- Two USB 2.0 Host Ports
- Internal Power Supply, no more lost or mismatched power bricks
- 2 Telephony ports for Comcast Voice Services
- Optional Battery Backup (sold separately)



### PRODUCT OVERVIEW:

With High Speed Internet service offerings reaching 1 Gbps and higher, the ARRIS SURFboard® SVG2482AC delivers speeds and performance to meet the new bandwidth services. The device supports for up to two Telephone lines and optional battery backup (sold separately) for Comcast voice 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 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, Voice, and Streaming 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 twenty four downstream and eight upstream channels
- Internet connectivity in the received (downstream) data stream of over 1 Gbps and over 240 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
- 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
- Internal power supply eliminates bulky transformers
- PacketCable 2.0 compliant, supporting XFINITY SIP based Voice Services
- Comcast RDK firmware for exclusive XFINITY compatibility and manageability\*

### Reliable and Secure

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

### Benefits

- Top of the line Cable Modem Wireless Access Point with Voice Support using 802.11ac wireless technology, supporting 1750 Mbps throughput
- Supported by ARRIS's highly rated Consumer Support Team

For information on additional SURFboard products please visit [www.SURFboard.com](http://www.SURFboard.com)

For product support please visit [www.arris.com/consumers](http://www.arris.com/consumers)

\*Some Xfinity Services available for Comcast owned Xfinity Modems may not be available to consumers using their own purchased DOCSIS Modems

i. Broadband cable service is required to use this product. DOCSIS® 3.0 service is required to obtain the channel bonded upload/download rates. Actual rates may vary dependent on a number of factors including, but not limited to: the services offered by your cable service provider, network traffic, computer equipment, type of server, number of connections to server, and availability of Internet router(s). The product is backward compatible with DOCSIS® 2.0. Please contact your cable service provider for their capability to modify, or upgrade, your cable modem. ARRIS cannot guarantee the availability, reliability, or performance of the broadband service used. Cable service providers may offer varying levels of support for this product. ARRIS, the ARRIS Logo and SURFboard are all trademarks or registered trademarks of ARRIS Enterprises LLC. All other trademarks are the property of their respective owners. © 2017 ARRIS Enterprises LLC. All rights reserved. XFINITY and the XFINITY logo are registered trademarks of Comcast Corporation.

## Interface Speeds

Wi-Fi®	1750 Mbps
DOCSIS® Downstream	1032 Mbps
Ethernet	10/100/1000
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
Battery Storage Temperature	-4 to 140 (-20 to 60) Note: Storage above 77°F (25°C) will significantly reduce life of the battery and is not recommended
Dimensions (H x W x D) inches	10.1 x 10.3 x 3.25 - excluding F-connector, including base
Backup Capacity (sold separately)	4 cell 2.2AH Lithium-ion for 8 hours operation. (#718005 Battery Pack)
Battery Dimensions (inches)	1.2 x 1.95 x 5.5
Weight lbs.	2.5 (with Battery)
Diagnostic LED's (Front)	Power, US/DS, Online, 2.4GHz, 5GHz, Tel1, Tel2, Battery
Diagnostic LED's (Rear)	MoCA, Ethernet Link/Speed

### Interfaces

RF Interface	External 'F' type connector
Data Interfaces (bridged)	4 x 10/100/1000 Base-T Ethernet (RJ-45 connector)
Analog Telephony Interface	2 lines; RJ-11
USB Interface	USB 2.0 Powered Host Ports
MoCA	MoCA Version 2.0 coax support
Input Voltage (nominal)	115/220VAC, 50/60 Hz

### RF Downstream

Bonded Channels	Up to 24
Tuner Configuration	Full capture tuning range
Frequency Range (MHz)	108-1002 DOCSIS
Data Rate (Mbps Max.)	Up to 1029
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)	ATDMA: +8 to 57 dBmV (32 QAM, 64 QAM) +8 to 58dBmV (8 QAM, 16 QAM) +8 to 61 dBmV (QPSK) S-CDMA: +8 to +56 dBmV (all modulations)
Modulation	QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM & 128 QAM (S-CDMA only)

### Wireless

Frequency Range	2.4 GHz and 5 GHz
System Transmit Power	2.4GHz – 30 dBm MCS0 ; 27dBm (MCS7) 5.0GHz – 30 dBm MCS0 ; 26 dBm (MCS9) Includes MiMo additive power gains . Total system power is adaptable to maintain regulatory limits in the specific band of operation where necessary.
Spatial Streams	3
Receive Levels	2.4GHz - <-88dBm 802.11n (MCS0) , <-71dBm 802.11n (MCS7), HT20 5.0GHz - <-84dBm 802.11ac (MCS0) , <-57dBm 802.11ac (MCS9), VHT80
Antennas (per band)	3 combined transmit and receive

### Telephony

Supervisory Voltage	48 Vdc nominal
Maximum Loop Length to CPE	1000 ft (457M) of 26 AWG (0.4 mm) wire
Ringing Load Capacity	10 REN total; 5 per line
Provisionable High Loop Current Mode	Yes (40mA constant current source)

**Copyright Statement:** © 2017 ARRIS Enterprises LLC. All rights reserved. No part of this publication may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from ARRIS Enterprises, LLC ("ARRIS"). ARRIS reserves the right to revise this publication and to make changes in content from time to time without obligation on the part of ARRIS to provide notification of such revision or change. ARRIS, SURFboard and the ARRIS logo are all registered trademarks of ARRIS Enterprises, LLC. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks or the names of their products. ARRIS disclaims proprietary interest in the marks and names of others.

**Note:** The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.