Features:

- Compatible with Windows®, Macintosh®, and UNIX® computers
- DOCSIS 3.0 certified
- Backwards compatible to DOCSIS 2.0
- Capable of downloading at speeds up to 8 times faster than DOCSIS 2.0
- DOCSIS 3.0 compatible, featuring:
  - Channel bonding of up to eight downstream channels and four upstream channels increasing data rates of over 300 Mbps for received data and over 100 Mbps when sending data
  - Supports IPv4 and IPv6 to expand network addressing capabilities
  - Enhanced security: supports AES traffic encryption
- IP multicast support
- GigE (RJ-45) data port with Auto Negotiate and Auto MDIX
- User-friendly online diagnostics
- Includes an internal filter to eliminate potential interference from MoCA signals’ intermodulation beats
- Online assistance for easy network set-up
- ARRIS support options via phone, chat, or e-mail

Product Overview

Strengthen your Broadband Leadership — Count on ARRIS SURFboard DOCSIS® 3.0 solutions to deliver innovative, ultra-broadband data services with reliable, high quality products. The easy-to-use SB6141 SURFboard® DOCSIS 3.0 Cable Modem unlocks the power of high-speed data. Utilizing the power of DOCSIS 3.0, the SB6141 enables channel bonding of up to eight downstream channels and four upstream channels, which enables advanced multimedia services with data rates of over 300 Mbps for received data and over 100 Mbps when sending data.

With SURFboard® cable modems, high-speed Internet access is always at your fingertips – always on and always connected. The SB6141 is the ideal solution for the high-end residential user, the small home office owner, and the medium to large business enterprise.
### GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Category</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Interface</td>
<td>F-Connector, female 75 Ω</td>
</tr>
<tr>
<td>CPE Network Interface</td>
<td>Single One-Gigabit (10/100/1000) Ethernet port</td>
</tr>
<tr>
<td>Data Protocol</td>
<td>TCP/IP</td>
</tr>
<tr>
<td>Dimensions</td>
<td>5 (h) x 2.1 (w) x 5.1 (l) in (127 x 51 x 127 mm)</td>
</tr>
<tr>
<td>Power</td>
<td>9W (nominal)</td>
</tr>
<tr>
<td>Power</td>
<td>105 to 125 VAC, 60 Hz</td>
</tr>
<tr>
<td>Outside North America</td>
<td>100 to 240 VAC, 50 to 60 Hz</td>
</tr>
</tbody>
</table>

### DOCSIS Upstream

<table>
<thead>
<tr>
<th>Modulation</th>
<th>QPSK and 8, 16, 32, 64, 128 QAM, optional 256 QAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Channel Rate*</td>
<td>131.072 Mbps (4 channels) /32.768 Mbps (single channel) @ 128 QAM at 6.4 MHz</td>
</tr>
<tr>
<td>Channel Width</td>
<td>200 kHz, 400 kHz, 800 kHz, 1.6 MHz, 3.2 MHz, 6.4 MHz</td>
</tr>
<tr>
<td>Symbol Rates</td>
<td>160, 320, 640, 1250, 5120 ksym/s</td>
</tr>
<tr>
<td>Operating Level Range</td>
<td>Level range per channel (Multiple Transmit Channel mode disabled, or only Multiple Transmit Channel mode enabled with one channel in the TCS)</td>
</tr>
</tbody>
</table>

### DOCSIS Downstream

<table>
<thead>
<tr>
<th>Modulation</th>
<th>64 or 256 QAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capture Bandwidth</td>
<td>Dual 96 MHz Capture windows</td>
</tr>
<tr>
<td>Maximum Theoretical Data Rate*</td>
<td>DOCSIS 343.072 Mbps (8 channels) / 42.884 (single channel) @ 256 QAM at 5.36 Msym/s</td>
</tr>
<tr>
<td>Bandwidth DOCSIS</td>
<td>≤ 48 MHz</td>
</tr>
<tr>
<td>Symbol Rate DOCSIS</td>
<td>64 QAM 5.057 Msym/s; 256 QAM 5.361 Msym/s</td>
</tr>
<tr>
<td>Operating Level Range</td>
<td>-15 to 15 dBmV</td>
</tr>
<tr>
<td>Bonded Channel RF</td>
<td>Level Tolerance 10dBmV Input Impedance 75 Ω (nominal)</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>108 – 1002 MHz (edge to edge)</td>
</tr>
<tr>
<td>Frequency Plans</td>
<td>DOCSIS Annex B</td>
</tr>
<tr>
<td>Security</td>
<td>DOCSIS 3.0 Security (BPI+, EAE, SSD)</td>
</tr>
<tr>
<td>Network Management</td>
<td>SNMP v2 &amp; v3</td>
</tr>
<tr>
<td>Provisioning</td>
<td>Supports IP addressing using IPv4 and/or IPv6 (dual stack)</td>
</tr>
<tr>
<td>MoCA Interference Rejection</td>
<td>1 GHz Low Pass filter at tuners input</td>
</tr>
</tbody>
</table>

### Compatibility

- **PC**: Windows XP, Windows 7, Windows 8, connection (older versions of Windows, although not specifically supported, will work with this cable modem), UNIX, Linux®
- **Macintosh**: Power PC or later; OS 10 or higher
- **Home Networking**: Ethernet router or wireless access point connectivity via Ethernet port

All features, functionality, and other product specifications are subject to change without notice or obligation.

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

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