

# Gateways / SR506n ADSL/VDSL2 + 4-Port WiFi



THE SR506n DSL/FTTH GATEWAY provides high performance and flexibility for broadband and IPTV subscribers. Utilizing the latest Broadcom VDSL2 chipset, the SR506n offers increased packet processing performance, a highly-integrated 802.11n WiFi Access Point with internal antenna array, while consuming less power than previous generation VDSL2 gateways. The SR506n can be used as a DSL or Ethernet gateway, and includes a router, firewall, and TR-069 management.

The SR506n is designed with ease of deployment in mind. The Automatic Broadband Connection feature eliminates the need for an installation CD or manual configuration and, if you decide to deploy a remote management solution, the SR506n offers maximum interoperability with industry-leading TR-069 remote management systems.

# / HIGHLIGHTS

### IPv6 Enabled

Support for IPv6/IPv4 Dual Stack, IPv6 Rapid Deployment (6RD) and Dual-Stack Lite (DS-Lite) transition mechanisms. The SR506n supports IPv6 out-of-the-box today and protects Service Provider and customer investment for years to come.

### Vectoring

With integrated support for the ITU-T's new G.993.5 Vectoring specification, the SR506n works in conjunction with vectoring-enabled DSLAMs to remove crosstalk inteference, allowing lines to reach their full bandwidth potential, as if they were the only line in the cable binder.

# **TR-069 Remote Management**

SmartRG has a rich TR-069 heritage, leading the market in innovative TR-069-enabled services and solutions. Superior remote manageability reduces Service Provider operational expenses and maintenance costs.

### **IPTV Grade**

With features such as dedicated hardware accelerator engines for wire-speed packet processing and Large Send Offload, Broadcom PhyR<sup>TM</sup>/G.inp, advanced IGMP/Multicast traffic handling, and dynamic/static LAN port-to-PVC mapping, the SR506n delivers the high throughput at low bit error rate required when delivering HD IPTV services over copper and assures Quality of Service is maintained in the triple play environment.

### / FEATURES

1 Gigabit Ethernet + 3 Fast Ethernet LAN ports

Single USB 2.0 port

WPS and Wireless on/off buttons

802.11n 300Mbps Access Point

Dual-Core 600MHz CPU

### ' BUILT-IN SUPPORT

**VDSL2 Vectoring** 

VDSL2 profiles up to 17a, with automatic fallback to ADSL2/2+ Annexes A, L (Reach-Extended) and M (Extended Upstream Bandwidth)

IPv6, Dual-Stack, Dual-Stack Lite, and 6RD transition mechanisms

Managed SPI Firewall

Managed WiFi

TR-069 Captive Portal

# / PRODUCT FEATURES

### **DSL**

ITU-T G.993.1 (VDSL)

ITU-T G.993.2 (VDSL2)

ITU-T G.993.5 (G.vector)

ITU-T G.992.5 (ADSL2+)

ITU-T G.992.3 (ADSL2)

Annex L (Reach Extended ADSL2)

Annex M (Extended Upstream Bandwidth)

ITU-T G.998.4 (G.inp) & Broadcom PhyR™ Impulse

**Noise Protection** 

SRA (Seamless Rate Adaptation)

ITU-T G.992.1 (G.dmt) & ITU-T G.992.2 (G.lite)

ANSI T1.413 Issue 2

#### WAN

Packet Transfer Mode (PTM) in both VDSL2 and ADSL2+ Up to 16 ITU-T I.361 ATM PVCs or 8 PTM VLANs

Per-PVC packet level QoS

Supports UBR, VBR and CBR traffic shaping

Diffserv and 802.1Q prioritization

### Wireless

802.11n 300Mbps AP with 2x2 MIMO

Wireless bridge, WDS

Multiple SSIDs, including isolated Guest SSID

WiFi QoS (WMM) and PowerSave

Wireless Security:

- · Wi-Fi Protected Access (WPA, WPA2)
- · AES, TKIP, WEP encryption
- 802.1x authentication

# Remote Management

TR-069 Device Management

TR-098 Gateway Device Model

TR-106 Generic Device Model

TR-111 LAN Device Management

Automatic Subscriber Activation

Real-time Status and Reporting

Remote Firmware Upgrades

Custom Configuration Backup and Restore

# Security

Stateful Packet Inspection Firewall

DoS and DDoS attack prevention

TCP/IP/Port/interface filtering rules

MAC Layer Filtering

Day-time Parental Control

DMZ host

## / PRODUCT FEATURES

# Routing and Networking

RFC2684 Multiprotocol Encapsulation over ATM

RFC2364 PPPoA

RFC2516 PPPoE

PPPoE pass-through

802.1Q VLAN over RFC2684 bridge encapsulation

IP over Ethernet over AAL5

DNS Proxy/Relay and Dynamic DNS client

**DHCP Server and Client** 

**DHCP Relay** 

NAPT and NAT

IGMP Proxy and Snooping

RIPv1/v2

VPN Passthrough (IPSec, L2TP & PPTP)

Simple Network Time Protocol

LAN port to VC mapping

Multiple Service PVC

IP/Bridge/802.1p QoS

Port Mirroring for troubleshooting

# / SPECIFICATIONS & STANDARDS

## Mechanical

Dimensions: 153mm\*110mm\*34mm (W\*D\*H) Weight: 280g

### **Flectrical**

Power Requirements:

AC power adaptor: 100VAC-240VAC @ 50/60Hz

DC voltage: 12V, 1.25A

### **EMC** and Safety

FCC Part 15, Subpart B and ICES-003 for Class B

FCC Part 68 and IC CS-03 registered

ETL listed, RoHS compliant

### Environmental

Overvoltage/Overcurrent:

ITU-T K.21 Compliant

### Temperature:

0 to 55 degrees C (Standard Operating) 20 to 70 degree C (Non-operating)

### Humidity:

0% to 95% (Non-condensing, Standard Operating)

5% to 95% (Non-condensing, Non-operating)

Vibration: IEC 68-2-36, IEC 68-2-6

Shock: IEC 68-2-29 Drop: IEC 68-2-32