SMART/RG®

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 vector-ing-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™/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

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

Electrical
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