

Gateways / SR510n ADSL/VDSL2 + 5-Port 802.11n WiFi



THE SR510n DSL/FTTH GATEWAY equips Broadband and IPTV Service Providers to offer state-of-the-art xDSL and WiFi technologies to their customers, delivering a high-value experience at a reasonable price.

Under the hood of the SR510n is the very latest in Broadcom xDSL silicon: A highly-integrated xDSL chipset supporting 5-band VDSL2 with fallback to all legacy ADSL modes. WiFi is provided via the integrated 802.11n 2x2 MIMO 300Mbps Access Point with external dipole antennas, delivering a strong , reliable WiFi signal throughout the home. With the included Gigabit SmartPort™, the SR510n can also be used as an Ethernet WAN gateway for FTTH or DOCSIS 3.0 scenarios where a carrier-grade router with industry-leading TR-069 management is required.

/ HIGHLIGHTS

IPv6 Enabled

Support for IPv6/IPv4 Dual Stack, IPv6 Rapid Deployment (6RD) and Dual Stack Lite (DS-Lite) transition mechanisms. The SR510n 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 SR510n 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 lines 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, G.inp Physical Layer Retransmission, advanced IGMP/ Multicast traffic handling, and dynamic LAN port-to-PVC mapping, the SR510n delivers the high throughput at low bit error rate required when delivering HD IPTV services and assures Quality of Service is maintained in the triple play environment.

/ FEATURES

• 4 Fast Ethernet ports + 1 Gigabit SmartPort™

802.11n 300Mbps Access Point

Two USB 2.0 ports

WPS and Wireless on/off buttons

Automatic Broadband Connection Creation

/ BUILT-IN SUPPORT

VDSL2 Vectoring with G.inp

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

K.21 Lightning protection

Managed WiFi & SPI Firewall

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) 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 ATM PVCs or 8 PTM flows

Per-PVC packet level QoS

Supports UBR, VBR and CBR traffic shaping

LAN as WAN (Gigabit Ethernet WAN)

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 Denial of Service attack prevention TCP/IP/Port/interface filtering rules MAC Layer Filtering Day-time Parental Control DMZ host

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

DHCP Server and Client

DHCP Relay

NAPT and NAT

IGMP Proxy and Snooping

RIPv1/v2

LAN port to VC mapping

Multiple Protocol VLAN Mux

Multiple Service PVC

IP/Bridge/802.1p QoS

Port Mirroring for troubleshooting

/ SPECIFICATIONS & STANDARDS

Mechanical

Dimensions: 225mm*60mm*175mm (L*W*H) Weight: 380g

Flectrical

Power Requirements:

AC power adapter: 100VAC to 240VAC @ 50/60Hz

DC voltage: 12V, 1.5A

Electromagnetic Compatibility

Certified with FCC, IC, and CE

ETL Listed and compliant with ETSI standards

Environmental

Overvoltage/Overcurrent:

ITU-T K.21 Compliant

Meets or exceeds Telcordia GR-63-CORE for:

Temperature:

0 to 55° Celsius (Standard Operating) 20 to 70° Celsius (Non-operating)

Humidity:

0% to 95% (Non-condensing, Standard Operating)
5% to 95% (Non-condensing, Non-operating)

Altitude

@ 40°C Ambient: 60m below sea level to 1800m above @ 30°C Ambient: 1800m to 4000m above sea level