# SMART/RG<sup>®</sup>

# Gateways / SR515ac A/VDSL2 + 5-Port 802.11ac Dual-Band WiFi



THE SR515ac DSL/FTTH GATEWAY equips Broadband and IPTV Service Providers to offer state-of-the-art 802.11ac WiFi and xDSL technologies to their customers, delivering a high-value experience at a reasonable price.

Inside the SR515ac is a highly-integrated xDSL chipset supporting 5-band VDSL2 with fallback to all legacy ADSL modes. Advanced 802.11ac Dual-Band WiFi is provided via the integrated 802.11ac 3x3 and 802.11n 2x2 Access Point, delivering a strong , reliable WiFi signal throughout the home. With the included Gigabit SmartPort<sup>™</sup>, the SR515ac can also be used as an Ethernet WAN gateway for FTTH or DOCSIS deployments 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 SR515ac 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 G.993.5 Vectoring specification, the SR515ac 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 SR515ac 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 Gigabit Ethernet ports + 1 Gigabit SmartPort™ Dual-Band 802.11ac + 802.11n 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) WiFi Beamforming - improves rate/reach for all clients IPv6, Dual-Stack, Dual-Stack Lite, and 6RD transition mechanisms K.21 Lightning protection Managed WiFi & SPI Firewall TR-069 Captive Portal

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# / 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

802.11ac 1300Mbps AP with 3x3 Beamforming MIMO 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

#### Mechan

Dimensions: 225mm\*60mm\*175mm (L\*W\*H) Weight: 400g

#### Electrica

Power Requirements: AC power adapter: 100VAC to 240VAC @ 50/60Hz DC voltage: 12V, 1.5A

#### Electromagnetic Compatibili

Certified with FCC, IC, and CE ETL Listed and compliant with ETSI standards

#### Environmenta

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

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