

Gateways / SR616ac A/VDSL2 IAD + 5-Port 802.11ac Dual-Band WiFi



THE SR616ac 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 SR616ac 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, and multiline VoIP, delivering a strong, reliable WiFi signal throughout the home. With the included Gigabit SmartPort™, the SR616ac can also be used as an Ethernet IAD 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 SR616ac supports IPv6 out-of-the-box today and protects Service Provider and customer investment for years to come.

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 SR616ac 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
- USB 2.0 port
- Two SIP-enabled FXS ports
- WPS and Wireless on/off buttons

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

/ PRODUCT FEATURES

DSL

ITU-T G.993.1/2 (VDSL/VDSL2)
ITU-T G.993.5 (G.vector)

ITU-T G.992.3/5 (ADSL2/2+)

• Annex L (Reach Extended ADSL2)

Annex M (Extended Upstream Bandwidth)

ITU-T G.992.1/2 (G.dmt/G.lite)

ANSI T1.413 Issue 2

ITU-T G.998.4 (G.inp) Impulse Noise Protection SRA (Seamless Rate Adaptation)

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 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

VolP

SIP/RTP/RTCP/SDP

Outbound Proxy

Fax/modem passthrough & ITU-T T.38 Fax Relay

RFC2833 DTMF tone detection/generation

ITU-T G.168 Echo Cancellation

Silence Supression (VAD-DTX-CNG)

/ SPECIFICATIONS AND STANDARDS

Mechanica

Dimensions: 220mm*40mm*180mm (L*W*H)

Weight: 400g

Electrical

Power Requirements:

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

voltage: 12V, 2A

FMC & Safety

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

FCC Part 15, Subparts C & E and IC RSS-247 for RF

FCC Part 68 and IC CS-03 registered

UL 60950-1 (Bureau Veritas listed)

Overvoltage/Overcurrent: K.21 compliant

Environmental

Meets or exceeds Telcordia GR-63-CORE for:

Temperature:

- 0 to 40° Celsius (Standard Operating)
- -10 to 60° Celsius (Non-operating)

Humidity:

- 10% to 95% (Non-condensing, Standard Operating)
- 5% to 95% (Non-condensing, Non-operating)