

SMART/RG®

Gateways / SR700ac

LTE + A/VDSL2 + 5-Port 802.11ac Dual-Band WiFi



THE SR700ac LTE/DSL GATEWAY is the ideal solution for small businesses, sales kiosks, home offices, or any customer with mission-critical, always-on broadband access requirements. The SR700ac integrates state-of-the-art Category 4 LTE, 802.11ac WiFi, and xDSL technologies in a high-value product at a reasonable price.

Inside the SR700ac is a highly-integrated DSL chipset supporting 5-band VDSL2 with fallback to all legacy ADSL modes. 4G LTE with speeds up to 150Mbps is built-in - no external USB LTE modem needed. Advanced 802.11ac Dual-Band WiFi delivers a strong, reliable WiFi signal for up to 128 clients. With the included Gigabit SmartPort™, the SR700ac can also be used as an Ethernet WAN gateway for FTTH or DOCSIS deployments where a carrier-grade router with integrated LTE and industry-leading TR-069 management is required.

/ HIGHLIGHTS

4G LTE

The embedded 4G LTE Category 4 modem provides high speed cellular connectivity, supporting up to 150Mbps downstream and 50Mbps upstream, making it ideally suited for applications which require higher throughput with reduced latency.

IPv6 Enabled

Support for IPv6/IPv4 Dual Stack, IPv6 Rapid Deployment (6RD) and Dual Stack Lite (DS-Lite) transition mechanisms. The SR700ac 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 SR700ac works in conjunction with vectoring-enabled DSLAMs to remove crosstalk interference, 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.

/ FEATURES

• STAY CONNECTED:

- Use DSL or Ethernet WAN as primary connection with automatic failover to 4G LTE
- OR
- Use 4G LTE as primary connection when no wired broadband access is available

- Dual-Band 802.11ac + 802.11n Access Point with high-performance external antennas
- Two FXS Phone ports
- One USB 2.0 port
- One SIM slot

/ 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
- K.21 Lightning protection
- 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.992.3/5 (ADSL2/2+) Annexes A, L & M
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

LTE

FDD-LTE Cat4 (800/900/1800/2100/2600MHz)
WCDMA (900/1900/2100MHz)

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
TR-196i2 Femto AP Data Model
TR-262 Femto Component Objects

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: 400g

Electrical

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

Electromagnetic Compatibility

Certified with FCC & Industry Canada
ETL Listed and compliant with ETSI standards

Environmental

Overvoltage/Overcurrent:
ITU-T K.21 Compliant

Meets or exceeds Telcordia GR-63-CORE for:

Temperature:

-10 to 55° Celsius (Standard Operating)
-30 to 60° Celsius (Non-operating)

Humidity:

5% to 95% (Non-condensing, Standard Operating)
5% to 90% (Non-condensing, Non-operating)

Altitude:

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