

SMART/RG®

Gateways / SR630n

VDSL2 IAD + 5-Port WiFi



THE SR630n VDSL2/FTTH INTEGRATED ACCESS DEVICE provides high performance and flexibility for Triple-Play subscribers. Utilizing the latest Broadcom VDSL2 chipset, the SR630n offers increased packet processing performance, a highly-integrated 802.11n WiFi Access Point with internal antenna array, and multiline VoIP, all while consuming less power than previous generation VDSL2 gateways. The SR630n can be used as a DSL or Ethernet IAD, and includes a router, firewall, and TR-069 management.

The SR630n 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 SR630n 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 SR630n 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 SR630n works together with DSLAMs to remove crosstalk interference, 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, G.inp, advanced IGMP/Multicast traffic handling, and dynamic/static LAN port-to-PVC mapping, the SR630n 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

- Four RJ-45 Fast Ethernet LAN ports + RJ-45 Gigabit Ethernet SMARTport™ (LAN or WAN)
- Two USB 2.0 ports
- Two FXS ports, integrated FXO
- WPS and Wireless on/off buttons
- 802.11n 300Mbps Access Point
- Automatic Broadband Connection Creation

/ 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
- Interoperable with industry-leading Softswitches and Session Border Controllers

/ 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) & Broadcom PhyR™
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
Diffserv and 802.1Q prioritization

Wireless

802.11n 300Mbps AP with 2x2 MIMO
MAC-based filtering
Wireless bridge, WDS
Multiple SSIDs
WiFi QoS (WMM)

Remote Management

TR-069 Device Management
TR-098 Gateway Device Model
TR-106 Generic Device Model
TR-111 LAN Device Management
Real-time Status and Reporting
Remote Firmware Upgrades
Configuration Backup and Restore
Value-added service provisioning (e.g. IPTV, VoIP)

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, Client, and Relay
NAPT and NAT
IGMP Proxy and Snooping
LAN port to VC mapping
Multiple Protocol VLAN Mux & Multiple Service PVC
IP/Bridge/802.1p QoS
Port Mirroring for troubleshooting

VoIP

SIP/RTP/RTCP/SDP
Outbound Proxy
Fax/modem passthrough (G.711) & ITU-T T.38 Fax Relay
RFC2833 DTMF in-band & out-of-band detection/generation
ITU-T G.168 Echo Cancellation
Silence Suppression (VAD-DTX-CNG)
Codecs: G.711, G.723.1, G.726, G.729, etc.

Security

Stateful Packet Inspection Firewall
Denial of Service attack prevention
TCP/IP/Port/interface filtering rules
MAC Layer Filtering
Day-time Parental Control

/ SPECIFICATIONS & STANDARDS

Mechanical

Dimensions: 225mm*60mm*175 mm (W*H*D)
Weight: 580g

Electrical Power Requirements:

AC power adaptor: 100VAC-240VAC, DC voltage: 12V, 2A
Power Consumption: < 24W

Safety

FCC Part 15, Subpart B and ICES-003 for Class B
FCC Part 68 and IC CS-03 registered
ETL Listed

Environmental

Meets or exceeds Telcordia GR-63-CORE for:

Temperature:

0° to 45°C (Standard Operating)
-40° to 70°C (Non-operating)

Humidity:

0% to 90% (Non-condensing, Standard Operating)
5% to 95% (Non-condensing, Non-operating)

Altitude:

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