SmartRG Gateways | **SR505N**

ADSL/VDSL2 + 4-Port WiFi

THE SR505N DSL/FTTH GATEWAY provides high performance and flexibility for broadband and IPTV subscribers. Utilizing the latest Broadcom VDSL2 chipset, the SR505N offers increased packet processing performance, a highly-integrated Dual-Band 802.11n WiFi Access Point with internal antenna array, while consuming less power than previous generation VDSL2 gateways. The SR505N can be used as a DSL or Ethernet gateway, and includes a router, firewall, and TR-069 management.

The SR505N 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 SR505N offers maximum interoperability with industry-leading TR-069 remote management systems.

For further information, email us at **Sales@SmartRG.com.**

HIGHLIGHTS

IPv6 Enabled

Support for IPv6/IPv4 Dual Stack, IPv6 Rapid Deployment (6RD) and Dual-Stack Lite (DS-Lite) transition mechanisms. The SR505N 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 SR505N 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 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, Broadcom PhyR™/G.inp, advanced IGMP/Multicast traffic handling, and dynamic/static LAN port-to-PVC mapping, the SR505N 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
- Single USB port
- WPS and Wireless on/off buttons
- 802.11n Dual-Band 300Mbps Access Point
- Automatic Broadband Connection Creation

BUILT-IN SUPPORT FOR

- 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
- Managed SPI Firewall
- Managed WiFi
- 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) & Broadcom PhyR™ 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
Diffserv and 802.1Q prioritization

Wireless
Dual-Band 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: 154mm*58mm*152mm (W*D*H)
Weight: 227g

Electrical
Power Requirements:
The SR505N uses an AC adapter that supplies DC voltages
AC power adaptor: 100VAC-240VAC
DC voltage: 12V, 1.25A
Heat & Power Dissipation:
Power: < 15W

Electromagnetic Compatibility
Certified with FCC, compliant with ETSI standards.

Environmental
Overvoltage/Overcurrent:
ITU-T K.21 Compliant
Temperature:
0 to 55 degrees C (Standard Operating)
20 to 70 degree C (Non-operating)
Humidity:
0% to 90% (Non-condensing, Standard Operating)
5% to 95% (Non-condensing, Non-operating)
Vibration: IEC 68-2-36, IEC 68-2-6
Shock: IEC 68-2-29
Drop: IEC 68-2-32

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Specifications are subject to change without notice.
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