

Gateways / SR804n

DOCSIS 3.0 8x4 + 4-Port WiFi

(888) 375-8826

[www.coretelecom.net](http://www.coretelecom.net)



THE SR804n DOCSIS® 3.0 GATEWAY is a cost-effective Cable Gateway for the Service Provider looking for an affordable DOCSIS modem with integrated router, firewall, and industry-leading TR-069 management. The SR804n is CableLabs® certified for DOCSIS® 3.0 and, through advanced channel-bonding technology, delivers speeds 8x faster than DOCSIS® 2.0, while maintaining full backward compatibility with DOCSIS® 2.0, 1.1, and 1.0. The SR804n includes a 300Mbps 802.11n WiFi Access Point and a 4-port Gigabit Ethernet switch.

The SR804n is designed with ease of deployment in mind and, if you decide to deploy a remote management solution, the SR804n offers maximum interoperability with industry-leading TR-069 and SNMP-based 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 SR804n supports IPv6 out-of-the-box today and protects Service Provider and customer investment for years to come.

### Easy to Use

Wi-Fi Protected Setup (WPS) makes it easy to pair WiFi devices at the push of a button. Plug in a USB Memory Stick or Hard Drive and easily find and stream your media to DLNA-enabled TVs, DVD players, gaming systems, etc.

### TR-069 and SNMP 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

- 4 Gigabit Ethernet ports
- 802.11n 300Mbps Access Point
- Two USB 2.0 ports
- WPS and Wireless on/off buttons

## / BUILT-IN SUPPORT

- 8x4 channel bonding
- Download speeds in excess of 320Mbps
- Full-band capture for non-contiguous bonding
- IPv6, Dual-Stack, Dual-Stack Lite, and 6RD transition mechanisms
- K.21 Enhanced Lightning protection
- Internal filter eliminates MoCA interference
- IPSec VPN Termination

## / PRODUCT FEATURES

### DOCSIS®

DOCSIS®3.0 with 2.0, 1.1, 1.0 backward compatibility  
BPI+ (Baseline Privacy Plus Interface) data privacy

### Wireless

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

### Security

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

### Routing and Networking

NAPT and NAT  
RFC3489 (STUN) Port-restricted Cone NAT  
RIPv1/v2 with MD5 authentication  
802.1Q VLAN  
DNS Proxy  
Dynamic DNS Client  
DHCP Server and Client  
IPSec, PPTP Passthrough  
Port Forwarding  
Port Triggering  
DMZ host  
Configurable Syslog (local and/or remote)  
IPSec VPN tunnel endpoint

## / SPECIFICATIONS & STANDARDS

	Downstream	Upstream
Frequency Range	88 - 1002 MHz	5 - 42 MHz
Channel Bandwidth	6 MHz	200 KHz - 6.4 MHz
Capture Bandwidth	Full Band Capture	Full Band Capture
Modulation	64/256 QAM	A-TDMA: QPSK/8/16/32/64 QAM S-CDMA: QPSK/8/16/32/64/128 QAM
Symbol Rate	64 QAM 5.06Msym/s 256 QAM 5.36Msym/s	160, 320, 640, 1280, 2560, 5120 Ksym/s
Max Data Rate per channel (Mbps)	64 QAM: 30.34 256 QAM: 42.88	QPSK: 2.56 16 QAM: 20.5 32 QAM: 25.6 64 QAM: 30.72 QPSK: 2 bits 8 QAM: 3 bits 16 QAM: 4 bits 32 QAM: 5 bits 64 QAM: 6 bits 128 QAM: 7 bits
Bits per Symbol	64 QAM: 6 bits 256 QAM: 8 bits	
Operating Level Range	-17 to +13 dBmV	
Input Impedance	75Ω	
Carrier To Noise Ratio	64 QAM: 25.5dB @ BER <10-8 256 QAM: 31.5dB @ BER <10-8	
Output Power	QPSK: +8dBmV to +61dBmV 64 QAM: +8dBmV to +57dBmV	

### Mechanical

Dimensions: 216mm\*150mm\*42mm (L\*W\*H)  
Weight: 500g

### Electrical

AC power adapter: 100VAC-240VAC @ 50/60Hz  
DC output: 12V @ 2A  
Maximum Power Consumption: 20 watts

Data Ports: GigE (Auto-MDIX): RJ-45 Ethernet (4)  
USB 2.0: USB Tybe B (2)  
RF Port: Female "F" type @ 75Ω

### EMC / Safety / Environmental

FCC and Industry Canada Certified, ETL listed, RoHS compliant

### Environmental

FCC & Industry Canada Certified  
ETL listed, CE, RoHS & WEEE compliant

#### Overvoltage/Overcurrent:

ITU-T K.21 Enhanced Mode (6kV)

#### Temperature:

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

#### Humidity:

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