Key Features

- o **DOCSIS® 3.1 CableLabs® Certified***
  - • Full-Spectrum Capture Tuner
  - • Software selectable low and mid split

- o **High-Performance WiFi 6 Integrated**
  - • Dual-band 4x4 2.4GHz and 5GHz Radios
  - • Internal Omni-Directional Antennas

- o **True Multi-Gigabit Broadband Speeds**
  - • 2.5Gbps Eth Port + 3x1Gbps Eth Ports

- o **OpenSync™ Integrated**
  - • Works seamlessly with OpenSyncTM WiFi

- o **PacketCable and SIP VoIP with BBU**
  - • PC2.0/1.5 and SIP Supported
  - • Connection to external BBU with 8- and 24-hour options

Overview

The DG4244-S is a multi-gigabit DOCSIS® 3.1 WiFi 6 voice gateway with a 2.5Gbps + 3 1Gbps Ethernet LAN ports, 2 FXS ports, and dual-band 4x4 + 4x4 WiFi 6 built-in. This full-featured router is the hub for the home and offers customers a premium WiFi 6 experience with high-performance 2.4GHz and 5GHz radios as well as internal omni-directional antennas to cover the whole home in fast, reliable WiFi. The DG4244-S also offers two RJ-11 ports for exceptional telephony services that can be paired with an external battery backup for voice function during power outages. A 3.5mm TRS jack is available for status and monitoring of the battery backup unit.

For customers working with Plume today, the DG4244-S has OpenSync™ integrated and pairs seamlessly with Plume/OpenSync™ compatible WiFi to provide both the subscriber and operator with unmatched control and visibility into the entire home network. For operators interested in other whole home WiFi options, Sercomm can also easily integrate local and cloud-based WiFi mesh software to work with your existing or preferred WiFi mesh solution.

Technical Specifications

DOCSIS®

Downstream

Frequency Range	108-1002MHz
Channels	32 SC-QAM + 2 OFDM
Tuner	Full-Spectrum Capture

Upstream

Frequency Range	5-42MHz or 5-85MHz (software selectable)
Channels	8 SC-QAM + 2 OFDMA

VoIP

Standards	PacketCable1.5 PacketCable2.0 SIP
Codecs	G.711, G.722, G.729
REN	5 REN per line (10 total)

WiFi

WiFi Technology	IEEE 802.11a/b/g/n/ac/ax
Maximum PHY Rates	2.4GHz: 1.2Gbps 5GHz: 2.4Gbps
Supported Channels	2.4GHz: 1-13 5GHz: 36-48, 52-64, 100-144, 149-165
Channel Bandwidth	2.4GHz: 20, 40MHz 5GHz: 20, 40, 80MHz
Spatial Streams	4 SU-MIMO 4 MU-MIMO
WiFi Security	WPA3, WPA2, WPA
WiFi Features	WPS Up to 8 SSIDs per radio Guest WiFi SoftGRE Hotspot

Interfaces

RF	75Ω F-Type External Connector
Ethernet	1* 10/100/1000/2.5G BASE-T LAN Port 3* 10/100/1000 BASE-T LAN Ports
USB	1* USB2.0 Port
VoIP	2* RJ-11 Ports
Power	12VDC Input External AC/DC PSU
Battery Backup	External
Button	3.5mm TRS for Management WPS, Reset

Hardware

LEDs	Power, DS/US, Online, WiFi, VoIP
Dimensions	270 x 185 x 70mm
Operating Temp.	0°C – 40°C
Operating Humd.	5% to 95% Non-Condensing
Storage Temp.	-40°C – 60°C
Storage Humidity	5% to 95% Non-Condensing
ESD	Air: 8KV Contact: 4KV Class A
Surge	Cable: 3KV Ethernet: 1KV PSU: 6KV

Management

TR-069	OpenSync™
SNMP	v1/v2/v3
Local webGUI	HTTP/HTTPS

Certifications

DOCSIS® 3.1*, Packetcable 1.50* WiFi Alliance*, UL® 60950*

Internet — Operator Network OSS/BSS Digital cable Cloud Applications

DOCSIS

DG4244-S
DOCSIS 3.1
4+4 11ax Gateway

Extender

Extender