

FEATURES

- Ultra-broadband Support: Terabit backplane capacity, 300G switching throughput per module
 - 2 x 100GE Interfaces
 - 10 x 10GE Interfaces
- Precision Timing: IEEE 1588v2 Precision Timing
- High Availability: Active-Active data plane, Active-Protect control plane
- QSFP28 and SFP+ Interfaces: Enable evolution to DWDM
- Management Interfaces: CLI, Telnet, SSH, SNMPv1, 2, 3, TACACS+, and Radius
- Robust Switching and Routing Features
 - OSPFv2 and v3, RIPv2 and RIPng, BGP (IPv4 and IPv6), MLD/MLD2, Static IP and Multi-Cast
 - L2 and L3 MPLS
 - L2VPN

The CommScope® SMM300G/300Gm Switch and Management Module provides the switching scale ultra-broadband solutions demand. The SMM300G/300Gm enables line-rate forwarding with 300G switching throughput per module and terabit backplane capacity. Each SMM300G/300Gm module provides two 100GE interfaces (QSFP28) and ten 10GE interfaces (SFP+).

The SMM300G/300Gm is a single-slot module that can be added to either the high-density C100G or mid-density C40G CCAP chassis. Up to two SMM300G/300Gm modules can be deployed in a chassis, enabling 600G aggregate throughput per chassis.

Note: CommScope does not support a mix of SMM300G and SMM300Gm cards in the same chassis.



The SMM300G/300Gm provides robust switching and routing features to support a wide range of services, including MPLS, BGP (IPv4 and IPv6), and L2 VPN. Designed for the high availability service providers require, the SMM300G/300Gm runs in Active-Active mode on the data plane and Active-Protect on the control plane and provides 1+1 redundancy. Features such as IEEE 1588v2 Precision Timing provide the precision timing services required for ultra-broadband services, including mobile backhaul. Management interfaces, including CLI, Telnet, SSH, SNMPv1, 2, 3, TACACS+, and Radius, enable user-friendly, flexible network management.

FEATURES AND BENEFITS

Feature	Description
Capacity and Throughput	
Two 100GE and ten 10GE interfaces per SMM300G/300Gm module	300G bidirectional switching throughput enables ultra-broadband services with minimal hardware deployments. SMM300G and SMM300Gm modules differ only in the packet processor they use.
1+ Terabit Backplane	End user speeds can be constrained at various points. Adequate bandwidth between the switch card and line card assures higher throughput.
Reliability	
Product Reliability	99.999% availability and hitless failover assure services are consistently delivered to subscribers. Includes Active-Active mode on the data plane and Active-Protect on the control plane and provides 1+1 redundancy.
Vendor Reliability	CommScope's track record proves a reliable history of bringing new technologies to market first, at each generational shift. Our winning design, vision of the future, freedom from reliance on third-party silicon providers, and passion to be first with the best solution all create value for our customers. Service providers who want faster time to revenue, lower lifetime TCO, and gigabit+ speeds today choose CommScope.

TECHNICAL SPECIFICATIONS

Characteristics	Specification
Capacity	Two 100GE interfaces (QSFP28) and ten 10GE interfaces (SFP+) per module
Management	Two management ports: 1G Ethernet (RJ45) and a Console port (RJ45) Command line interface (CLI) Telnet SSH SNMPv1, v2, and v3 Standard DOCSIS and IETF MIBs IPDR CommScope Enterprise MIBs Event logging through Syslog Electronic mail notification Resource usage reporting TACACS+ and RADIUS Front LEDs including Status, Active, and Alarm
Environmental	Operating Temperature: 0° to 50°C (32° to 122°F) Storage Temperature: -40° to 70°C (-40° to 158°F) Operating Humidity: 5% to 95%, non-condensing Power Requirements (DC): -40.5 to -60 V (dual) Power Consumption: 160W
Additional Features	IEEE 1588v2 Precision Timing for delivering precision timing services for cellular backhaul applications Unlike the SMM300G, the SMM300Gm does not support PowerKey Video Encryption Libraries and is not suited for deployments that require that function. DVB or PME deployments are not affected.
IP Features	OSPF v2 and OSPF v3 IS-IS (IPv4 and IPv6) RIPv2 and RIPv6 BGP (IPv4 and IPv6) PIM-SM IGMP snooping IGMP v2 and v3 Static IP routing DHCP Relay and option 82 DHCPv6 DHCP prefix delegation Multiple DHCP servers Proxy ARP IP subnet bundling Multiple default routes Access Control Lists L2 MPLS L3 MPLS L2VPN VLAN Tagging Link Aggregation IPFIX Pseudowire redundancy
Regulatory Compliance	Designed to NEBS level 3 requirements Safety: EN/UL/IEC/CAN/CSA/C22.2 60950-1 EMC: FCC Part 15 Class A & CISPR Class A Immunity: EN61000-4

ORDERING INFORMATION

Model Name	Description
C100G-SMM-300-GM	Switch Management Module (2X100GbE SFP + 8X10GbE SFP)

RELATED PRODUCTS

C100G Converged Cable Access Platform (CCAP)	BDM2/BDM2m Bidirectional Module
C40G Converged Cable Access Platform (CCAP)	

Contact Customer Care for product information and sales:

- United States: 888-944-4357
- International: +1-215-323-2345

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