

24-Port 10/100 Stackable Managed PoE Switch + 2-SFP Dual Media Ports

Signamax Connectivity Systems' new stackable Gigabit Ethernet Power over Ethernet (PoE) Access Switch provides the capability to remotely power wireless access points, VoIP telephones, Powered Device (PD) media converters, and other devices that meet the IEEE 802.1af PoE standard. These switches provide non-blocking performance for two 10/100/1000BaseT/TX Dual Media Gigabit Ethernet ports plus 24 10/100BaseT/TX PoE-equipped ports. The 065-7726SPOE switch shares the same SNMP management package as its 065-7726S counterpart. Both ring and star Gigabit backbone network architectures are possible with full automatic failover AND PoE extension to every workstation. Enhanced Layer 3 look-ahead routing features and IEEE 802.1p Quality of Service / 802.1Q Tagged VLAN / IP Type of Service support make the Signamax 065-7726SPOE switch the cost-effective choice for creating an infrastructure capable of supporting Voice over IP telephony and wireless access.

KEY FEATURES

- PoE, To Save Power Infrastructure Costs
- 2 Dual Media Ports for Flexible Fiber Connection
- Isolated Group Feature for Secure Port Segregation
- Port Mirroring for Enhanced Network Monitoring
- 802.3ad Port Trunking with Automatic Link Fail Over for Bandwidth Aggregation
- QoS Supports 4 Priority Queues
- Q-in-Q VLAN for Performance & Security
- 802.1x Access Control Improves Network Security
- 802.1D Compatible & 802.1w Rapid Spanning Tree
- Broadcast/Multicast Storm Control

ORDERING INFORMATION

Part Number	Description
065-7726SPOE	24-Port 10/100 Stackable Managed PoE Switch + 2 SFP/RJ-45 Dual Media Ports

SFP Modules

065-79SXMG	1000BaseSX SFP Module – MM/LC, 220m Span on 62.5µm Fiber / 550m Span on 50µm Fiber
065-79SXDMG	1000BaseLX SFP Module – SM/LC, 2 km
065-79LXMG	1000BaseLX SFP Module – SM/LC, 10 km
065-79LXEDMG	1000BaseLX SFP Module – SM/LC, 20 km

Note: Other type SFP Modules are available.

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SPECIFICATIONS**• APPLICABLE STANDARDS**

IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3ab 1000BaseT
IEEE 802.3z 1000BaseSX/LX
IEEE 802.3af Power over Ethernet (PoE)
IEEE 802.1p Priority (Quality of Service [QoS])
IEEE 802.1D/802.1w/802.1s Spanning Tree & Rapid Spanning Tree Protocols
IEEE 802.1Q Tagged VLAN with "Q-in-Q" support
IEEE 802.3x Flow Control
IEEE 802.3ad Link Aggregation
IEEE 802.1x Access Control

• PORTS

24 - RJ-45 10/100BaseT/TX PoE-equipped ports
2 - Dual Media Gigabit Ethernet ports (2- RJ-45 10/100/1000BaseT/TX ports with corresponding Small Form-factor Pluggable [SFP] auto-detecting ports) Broadcast/Multicast Storm Suppression enabled.

• Optional SFP Modules:

065-79SXMG: 1000BaseSX SFP fiber optic module with LC multimode fiber connectors. Maximum distance: 220 meters with 62.5/125 micron fiber or 550 meters with 50/125 micron fiber.
065-79SXEDMG: 1000BaseSX SFP fiber optic module with LC multimode fiber connectors. Maximum distance: 2 km with 62.5/125 micron fiber.
065-79LXMG: 1000BaseLX SFP fiber optic module with LC singlemode fiber connectors. Maximum distance: 10 km with 9/125 micron fiber.
065-79LXMGED: 1000BaseLX SFP with fiber optic module with LC singlemode fiber connectors. Maximum distance: 20 km with 9/125 micron fiber.

• LED STATUS INDICATORS

Per Switch: Power, CPU
Per Port: Link/Activity (separate for SFPs), 10/100 or 10/100/1000 speed for RJ-45 ports, PoE-PSE Active, PoE failure

• PERFORMANCE

Latency: <4.5 μ s (LIFO).
Throughput: 1.48810 million pps (64-byte packets)
Switch Fabric Speed: 12.0 Gbps (non-blocking, wire speed performance)
MAC Address Capacity: 8 K MAC addresses
Frame Buffer: 256 KB, on-chip
Control Memory: 128 KB
Jumbo Frame Support: up to 9 Kbytes frame size
Port Mirroring: Inbound and Outbound, assignable to any port

• NETWORK SECURITY

IEEE 802.1x access control with RADIUS authentication
Management Access Policy Control (ACL)

• INTERNETWORKING PROTOCOLS SUPPORTED

LACP (Link Aggregate Control Protocol):
IEEE 802.1ad Port Trunking with 2 Fast Ethernet +1 Gigabit Ethernet trunking groups; up to 4 ports for each group
GVRP/GARP (GARP VLAN Registration Protocol / Generic Attribute Registration Protocol):
IEEE 802.1Q with GVRP/ GARP
Multicasting:
Supports IGMP snooping including active and passive mode
IEEE 802.1Q with GVRP/ GARP
STP/RSTP (Spanning Tree Protocol / Rapid Spanning Tree Protocol):
IEEE 802.1d/1w/1s STP

• MANAGEMENT

Access Methods: Console port access via RS-232C DB-9 local console serial port, Telnet remote access, SNMP agent, and Web browser.
Software Upgrade Capability: Via Kermit/TFTP

• MANAGEMENT**VSM (Virtual Stacking Management)**

Up to 16 switches can be managed via a single IP address. Can be a mix of Signamax 065-7840, 065-7726S, 065-7726SPOE, and/or 065-7820POE switches within the 16 switch Virtual Stack
Virtual stacking via switch uplink channels; no extra proprietary stacking hardware required
Distributed stacking; no physical central wiring closet is needed

SNMP v1, v2c Network Management**RFC 1213 MIB (MIB-II)**

Interface MIB
Address Translation MIB
IP MIB
ICMP MIB
TCP MIB
UDP MIB
SNMP MIB

RFC 1757 RMON MIB

Statistics Group 1
History Group 2
Alarm Group 3
Event Group 9

RFC 1493 Bridge MIB**RFC 1643 Ethernet MIB Enterprise MIB****• VLAN CAPABILITIES**

Port-based VLAN
IEEE 802.1Q Tag-based VLAN; up to 256 active VLANs possible
Q-in-Q VLAN supported, to efficiently enable Subscriber Aggregation
Supports SVL/IVL configuration
Supports egress/ingress packet filtering in tag-based VLAN
Supports flooding unknown VLAN frame setting, enabling flooding packets with a VLAN tag associated with an invalid or inactive VLAN

• QoS CAPABILITIES

Supports Layer 4 TCP/UDP port and ToS classification
Supports port based, 802.1p, TOS and DiffServ (IPv4/IPv6) based QoS packet classification
Supports 802.1p QoS with four level priority queue
Supports priority in a Q-in-Q tag for Bandwidth Control
Supports two scheduling types, Weighted Round Robin (WRR) and Strict
Supports bandwidth rating per port
Ingress and egress rate limits: 1000 Mbps in 1 Mbps increments

• POWER OVER ETHERNET (PoE) CAPABILITIES

24 IEEE 802.3af PoE Power Source Equipment (PSE) ports
Endpoint with 48 Volt DC power through RJ-45 pins 1, 2, 3, and 6
PoE-PSE activity LED indicator
185 watts of total power (up to 15.4 watts delivered to each of 12 ports, or up to 7.7 watts delivered to each of 24 ports)
Auto-detects powered devices and consumption levels
Supports per port power consumption monitoring
Supports intelligent PoE features:
Powered Device (PD) on/off
PD detection
power level
PD status
power feeding priority
Provides circuit protection, for preventing power interference between ports
Supports per port PoE State setting
Supports per port power priority setting

SPECIFICATIONS

• BANDWIDTH CONTROL CAPABILITIES

Bandwidth Rate Limiting:

Ingress rate limit:

Ports 1-24: 1 Kbps up to 100 Mbps

Ports 25 & 26: 1 Kbps up to 1000 Mbps

Egress rate limit:

Ports 1-24: 1 Kbps up to 100 Mbps

Ports 25 & 26: 1 Kbps up to 1000 Mbps

Broadcast Storm Suppression:

Multicast/Broadcast/Unknown-Unicast Storm suppression

Isolated Group:

Allows certain ports to be designated as protected for port segregation

Restricted Group:

Selects the direction of transmitting packets for a specific port

• PHYSICAL CHARACTERISTICS

Dimensions: 17.4"W x 8.3"D x 1.73"H

(442mm x 210mm x 44 mm)

Standard 19-in rack mounting

(hardware included)

Weight: 7.5 lbs (3.4 kg)

• ELECTRICAL CHARACTERISTICS

Maximum Wattage: 185 W.

AC Input: 100 ~ 240 VAC, 50 ~ 60 Hz internal universal power supply

• OPERATING ENVIRONMENT

Temperature: 32°F to 122°F (0°C to 50° C)

Relative Humidity: 5 to 90%, non-condensing

• SAFETY

FCC Part 15 Class A & CE Mark Approval

• WARRANTY

Five years, including power supply