

24-Port 10/100 Stackable Managed Switch + 2-SFP/RJ-45 Dual Media Ports

Signamax Connectivity Systems' 065-7726S is a new, stackable variant Gigabit Ethernet Access Switch that provides two Gigabit Ethernet connections plus 24 10/100 ports and modern QoS, Tagged VLAN, and full SNMP management in a cost-effective package. The two Dual Media Gigabit Ethernet ports use onboard RJ-45 connectors to permit easy clustering of switches, and auto-detected SFP modules for fiber optic switch interconnection at longer distances. Both creation of and additions to a Gigabit backbone network are enabled using 24 10/100 ports per switch for workstation and server connectivity. A complete SNMP management package is included, with web browser, local console, and Telnet remote terminal connections with real time updating. The 065-7726S communicates with network management systems such as HP OpenView(tm) via SNMP for enterprise-wide status display, statistical monitoring, and switch control. Enhanced Layer 3 look-ahead routing features and IEEE 802.1p Quality of Service / 802.1Q Tagged VLAN / IP Type of Service support provides flexibility for today's convergent networks.

KEY FEATURES

- 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
065-7726S	24-Port 10/100 Stackable Managed 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 802.1p 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
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.

• 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
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

• MANAGEMENT**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

• PORT MIRRORING CAPABILITIES

Supports 1:N RX port mirroring
Supports port sniffer function with 3 modes:
TX Monitor Mode
RX Monitor Mode
TX-RX pair Monitor Mode

• 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.
Model 065-7726S
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