SIGNAMAX™
CONNECTIVITY SYSTEMS
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Network Connectivity Systems

26-Port 10/100/1000 Stackable Managed PoE/PoE+ Switch with Four 100/1000Base SFP Dual Media Ports plus Two 100/1000Base SFP Slots

Signamax Connectivity Systems' 065-7861POE and 065-7861POE-FP switches are the new flagships of the Signamax Ethernet Power over Ethernet (PoE) switch product line. They provide non-blocking performance for 24 10/100/1000 Gigabit Ethernet connections supporting either PoE or the new PoE+ 802.3at standard, 4 of which are Dual Media100/1000Base SFP Ports, plus 2 100/1000Base SFP-only ports, for a total of 26 ports. These new switches support modern capabilities including IPv6, SSH management, QoS and Tagged VLAN, and full SNMP management at a surprisingly low cost. The six 100 or 1000Base SFP slots (four are Dual Media ports) use auto-detected SFP modules for fiber optic switch interconnection at extended distances. Both ring and star Gigabit backbone network architectures are possible with full automatic failover. The included SNMP management package is complete and comprehensive, with web browser, local console, and Telnet remote terminal connections and real time updating. The 065-7861POE and 065-7861POE-FP switches also communicate with network management systems such as HP OpenView™ via SNMP for enterprise-wide status display, statistical monitoring, and switch control. Enhanced Layer 2+ look-ahead routing features and IEEE 802.1p Quality of Service / 802.1Q Tagged VLAN / IP Type of Service support make the Signamax 065-7861POE or the 065-7861POE-FP models excellent choices for establishing or adding to an Enterprise PoE / PoE+ network.

KEY FEATURES

- Supports both IEEE 802.3af PoE and IEEE 802.3at PoE+ devices.
- Dual speed SFP slots for Fast Ethernet or Gigabit Ethernet fiber uplink.
- 802.3az Energy Efficient Ethernet standard.
- IPv6 and s-Flow support.
- Easy-Port-Configuration, for ease of setup in the IP Phone, IP Camera or Wireless environments.
- IEEE 802.1AB LLDP (Link Layer Discovery Protocol) and LLDP-MED (Media Endpoint Discovery) support.
- Supports RSTP/MSTP/STP for Ethernet redundancy.
- IP Multicast Filtering through IGMP Snooping V1, V2 & V3.
- Supports port-based VLAN and IEEE 802.1Q VLAN Tagging and GVRP.
- IEEE 802.1p QoS with four priority queues.
- Single IP Management (SIM), up to 16 switches.
- IEEE 802.3 ad Link Aggregation Control Protocol (LACP) support.
- RS-232 console, Telnet, SNMP V1, V2c & V3, RMON, SSL/SSH, HTTP (Web Browser), and TFTP Management.
- Supports Command Line Interface in RS-232 Console.
- Supports IEEE 802.1x Security.
- Bandwidth Rate Control, via port-policer.
- Per-port programmable MAC address locking.
- Static Secure MAC addresses supported.
- Port mirroring, both Inbound and Outbound.
- Supports Network Time Protocol (NTP).
- 1000 Mbps: Full-duplex; 10/100 Mbps: Full/Half-duplex; Auto-Negotiation, Auto-MDI/MDIX.

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
065-7861POE	26-Port 10/100/1000 Stackable PoE/PoE+ Managed Switch with 4 SFP Dual Media Ports + 2 SFP Ports; 185 watts PoE power.
065-7861POE-FP	26-Port 10/100/1000 Stackable PoE/PoE+ Managed Switch with 4 SFP Dual Media Ports + 2 SFP Ports; 370 watts PoE power.

Note: Optional SFP Gigabit Ethernet and Fast Ethernet Modules Sold Separately. Please see www.signamax.com for complete selection.

SPECIFICATIONS

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SPECIFICATIONS

- **APPLICABLE STANDARDS**
  IEEE 802.3 10BaseT
  IEEE 802.3u 100BaseTX
  IEEE 802.3ab 1000BaseT
  IEEE 802.3ad Link Aggregation Control Protocol (LACP)
  IEEE 802.3af PoE PSE
  IEEE 802.3at PoE+ PSE
  IEEE 802.3az Energy Efficient Ethernet standard
  IEEE 802.3x Flow Control
  IEEE 802.3z 1000BaseSX/LX
  IEEE 802.1p Priority (Quality of Service [QoS])
  IEEE802.1s Multiple Spanning Tree Protocol
  IEEE802.1w Rapid Spanning Tree Protocol
  IEEE802.1D Spanning Tree Protocol compatible
  IEEE 802.1Q Tagged VLAN with GVRP
  IEEE 802.1x Access Control
  IEEE 802.1AB LLDP (Link Layer Discovery Protocol) / LLDP-MED (Media Endpoint Discovery)

- **PORTS**
  24 - RJ-45 10/100/1000BaseT/TX ports supporting PoE or PoE+, including 4 Dual Media ports supporting 100/1000Base SFP slots.
  2 – 100/1000Base ports with SFP receptacles only.
  Broadcast/Multicast Storm Suppression enabled.
  Optional SFP Gigabit Ethernet and Fast Ethernet Modules are also available. Please visit www.signamax.com for additional details.

- **LED STATUS INDICATORS**
  Per Switch: Power
  Per Port: Twisted-Pair Port: Status (LINK/ACT), 10/100/1000M
  SFP Port: Status (LINK/ACT/SPD), 100/1000M

- **PERFORMANCE**
  Latency: <4.5 µs (LIFO).
  Throughput, per switch: 38.69 Mpps
  Switch Fabric Speed: 52.0 Gbps (non-blocking, wire speed performance)
  MAC Address Capacity: 8 K MAC addresses
  Frame Buffer: 1,392 KB on-chip frame buffer
  Jumbo Frame Support: up to 9 Kbytes frame size
  Port Mirroring: Inbound and Outbound, assignable to any port

- **NETWORK SECURITY**
  SSL/SSH (Secure Socket Layer / Secure Shell)
  IEEE 802.1x access control with RADIUS authentication
  Management Access Policy Control (ACL)

- **INTERNETWORKING PROTOCOLS SUPPORTED**
  LLDP (Link Layer Discovery Protocol) and LLDP-MED (Media Endpoint Discovery): IEEE 802.1AB
  Link Aggregation Control Protocol (LACP) Trunking: IEEE 802.3ad; 13 trunking groups; up to 16 ports for each group.
  GVRP/GARP (GARP VLAN Registration Protocol / Generic Attribute Registration Protocol): IEEE 802.1Q with GVRP/ GARP
  Multicasting: Supports IP Multicast Filtering via IGMP Snooping V1, V2 & V3
  STP/RSTP/MSTP (Spanning Tree Protocol / Rapid Spanning Tree /Multiple Spanning Tree Protocol): IEEE 802.1d/1w/1s

- **VLAN CAPABILITIES**
  Port-based VLAN
  IEEE 802.1Q Tag-based VLAN; up to 4K active VLANs possible
  MAC-based VLAN
  Management VLAN
  Private VLAN Edge (PVE)
  Voice VLAN (Voice traffic is automatically assigned to a voice-specific VLAN and treated with appropriate QoS levels.)

- **QoS CAPABILITIES**
  Supports 802.1p QoS with eight level hardware priority queue.
  Supports two scheduling types, Strict Priority and Weighted Round Robin (WRR) with user-variable weighting.
  Supports QoS Control Lists (QCL) for advance programmable QoS classification, based on IEEE 802.1p, Ethertype, VID, IPv4/IPv6 DSCP and UDP/TCP ports and ranges.
  Supports bandwidth rating per port.

- **POWER OVER ETHERNET (PoE) CAPABILITIES**
  24 IEEE 802.3af PoE / IEEE 802.3at PoE+ Power Source Equipment (PSE) ports
  PoE supported as endpoint with 48 Volt DC power through RJ-45 pins 1, 2, 3, and 6; PoE-PSE activity LED indicator.

  Model 065-7861POE: 185 watts of total PoE power (up to 30 watts delivered to each of 6 ports, up to 15.4 watts delivered to each of 12 ports, or up to 7.7 watts delivered to each of 24 ports); 185 watts dedicated to PoE / PoE+ power provisioning.

  Model 065-7861POE-FP: 370 watts of total PoE power (up to 30 watts delivered to each of 12 ports, up to 15.4 watts delivered to each of 24 ports); 500 watts total power available for PoE and switch operation.

  Auto-detects powered devices and consumption levels.
  Supports per port power consumption monitoring.

  Supports intelligent PoE features:
  • Powered Device (PD) on/off
  • Power level
  • Per port PoE State setting
  • Provides circuit protection, to prevent power interference between ports.
  • PD detection / status
  • Power feeding priority
  • Per port power priority setting

- **BANDWIDTH CONTROL CAPABILITIES**
  Bandwidth Rate Limiting: Via port-policer.
  Ingress rate limits:
  100 Kbps up to 1 Gbps for 1000Base ports
  Egress rate limits:
  100 Kbps up to 1 Gbps for 1000Base ports
  Broadcast Storm Suppression:
  Multicast/Broadcast/Unknown-Unicast Storm suppression

- **MANAGEMENT**
  Access Methods: Console port access via RS-232C /RJ-45 local console serial port (cable included with switch), SSH/SSL, Telnet, SNMP, or HTTP **Software Upgrade Capability:** Via HTTP, TFTP in-band, Console out-of-band
  SNMP v1, v2, and v3 Network Management:
  RFC 1213 MIB (MIB-2)
  RFC 1757 RMON MIB
  Statistics Group 1
  History Group 2
  Alarm Group 3
  Event Group 9
  RFC 1493 Bridge MIB
  VLAN MIB (IEEE802.1Q/RFC2674)
  Private MIB

- **CERTIFICATIONS**
  Emissions: EN55022 (CISPR 22) Class A EN 61000-3
  FCC Class A
  CE Mark
  Immunity: EN 61000-4-2/3/4/5/6/8/11
  EN 55024

- **ELECTRICAL CHARACTERISTICS**
  Maximum Switch Power Consumption: 20 Watts, plus PoE / PoE+ load.
  AC Input Range: 100~240 Volts AC, 50~60 Hz.

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SPECIFICATIONS (continued)

- **PHYSICAL CHARACTERISTICS**
  Model 065-7861POE:
  Dimensions: 17.4" (W) x 11.81" (D) x 1.73" (H)
  (442mm x 300mm x 44mm)
  Housing: Metal case. 19-in rack mounting hardware included.
  Weight: 8.5 lbs (3.9 kg)
  Model 065-7861POE-FP:
  Dimensions: 17.4" (W) x 15.15" (D) x 1.73" (H)
  (442mm x 384.8mm x 44mm)
  Housing: Metal case. 19-in rack mounting hardware included.
  Weight: 11.22 lbs (5.1 kg)

- **ENVIRONMENTAL CHARACTERISTICS**
  Operating Temperature: 32°F to 104°F (0°C to 40° C).
  Operating Humidity: 10 to 90% RH, non-condensing,

- **WARRANTY**
  Five years, including power supply.

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