065-7734 series Managed Switches with Redundant Power

Signamax Connectivity Systems' new 065-7734 series switches with redundant power supplies are flexible and highly reliable edge extension switches capable of fiber-based or twisted-pair expansion for large networks. They provide non-blocking performance for 24 10/100BaseT/TX or 24 100Base SFP slots, plus 4 Gigabit Ethernet connections in three of the models in the series. They incorporate modern QoS and Tagged VLAN capabilities, and full SNMP management at a surprisingly low cost. Models 065-7734FSPR and 065-77344DMR offer four Dual Media Gigabit Ethernet ports capable of using auto-detected SFP modules for fiber optic switch interconnection at extended distances. Model 065-77344TR offers four Gigabit Ethernet ports, while model 065-7734R offers a 24-port 10/100BaseT/TX managed configuration with redundant power capabilities.

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 065-7734 series also 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 make the Signamax 065-7734 series an excellent foundation for establishing or adding to an Enterprise network where redundant power is a requirement.

KEY FEATURES

- Supports Recover-Ring™ and RSTP/MSTP/STP for Ethernet redundancy.
- IP Multicast Filtering through IGMP Snooping V1, V2 & V3.
- Supports port-based VLAN and IEEE802.1Q VLAN Tagging and GVRP.
- IEEE 802.1p QoS with four priority queues.
- MAC-based trunking with automatic link fail-over.
- RS-232 console, Telnet, SNMP V1, V2c & V3, RMON, Web Browser, and TFTP Management.
- Supports Command Line Interface in RS-232 Console.
- Supports IEEE 802.1x Security.
- Complies with EN50121-4 Railway application environment.
- Bandwidth Rate Control.
- Per-port programmable MAC address locking.
- Up to 24 Static Secure MAC addresses per port.
- Port mirroring.
- Supports Network Time Protocol (NTP).
- Supports 8192 MAC addresses. Provides 3 Mbits memory buffer.
- Supports IEEE802.3/802.3u/802.3ab/802.3z/802.3x. Auto-negotiation: 1000Mbps-full-duplex; 10/100Mbps-full/half-duplex. Auto MDI/MDIX.
- SFP socket for Fast or Gigabit Ethernet fiber optic expansion.
- Store-and-forward mechanism.
- Full wire-speed forwarding rate.
- 100~240VAC, 50~60Hz redundant internal universal power supplies for reliability and flexibility.
- 32℉ to 113℉ (0℃ to 45℃) operating temperature range.
- Metal case.
- Supports Rack Mounting installation.
- Four different port configurations are available.

SPECIFICATIONS

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
065-7734R	24-Port 10/100 Managed Switch with Redundant Power Supplies
065-77344TR	24-Port 10/100 Managed Switch + 4 1000BaseT Ports and Redundant Power Supplies
065-77344DMR	24-Port 10/100 Managed Switch + 4 1000BaseT 10/100/1000BaseT/TX Dual Media Ports with 1000Base SFP Slots and Redundant Power Supplies
065-7734FSFPR	24 Ports 100Base SFP Slots + 4 10/100/1000BaseT/TX Dual Media Ports with 1000Base SFP Slots and Redundant Power Supplies

Note: Optional 100Base and 1000Base SFP Fiber Optic Modules Sold Separately

SPECIFICATIONS

· **APPLICABLE STANDARDS**
IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX
IEEE 802.3ab 1000BaseT
IEEE 802.3z 1000BaseSX/LX (via SFP module)
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 802.3x Flow Control
IEEE 802.1x Access Control

· **PORTS**
24 - RJ-45 10/100BaseT/TX ports (models 065-7734R, 065-77344TR, and 065-77344DMR)
OR
24 - 100Base SFP receptacles + **4** - 10/100**/**1000BaseT/TX Dual Media ports with SFP receptacles (model 065-7734FSFPR).
Optional:
4 - 1000BaseT ports (model 065-77344TR) OR
10/100**/**1000BaseT/TX Dual Media ports with SFP receptacles (model 065-77344DMR).

· **LED STATUS INDICATORS**
Per Switch: Power Status 1 & 2
Per Port:
  10/100BaseT/TX, 100Base SFP: Link/ACT
  10/100/1000T/TX, SFP: Link/ACT
  Gigabit Ethernet SFP: SFP PoE

· **PERFORMANCE**
Latency: <4.5 µs (LIFO).
Throughput, per port: 1.48810 million pps (64-byte packets)
Switch Fabric Speed: 12.8Gbps (non-blocking, wire speed performance)
MAC Address Capacity: 8 K MAC addresses
  Per-port programmable MAC address locking
  Up to 24 Static Secure MAC addresses per port
Frame Buffer: 3 Mbits
Port Mirroring: Inbound and Outbound

· **INTERNETWORKING PROTOCOLS SUPPORTED**
Recover-Ring™: Supports recovery of ring-based network architecture in <15ms. Proprietary.
MAC-based Trunking: 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 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

0657734 series 12132011

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SPECIFICATIONS (continued)

· QoS CAPABILITIES
Supports 802.1p QoS with four level priority queue
Supports two scheduling types, Strict Priority and Weighted Round Robin (WRR) with user-variable weighting.
Supports bandwidth rating per port

· BANDWIDTH CONTROL CAPABILITIES
Bandwidth Rate Limiting:
  Ingress rate limits:
    1 Kbps up to 100 Mbps for 10/100 ports, up to 1 Gbps for 1000Base ports
  Egress rate limits:
    1 Kbps up to 100 Mbps for 10/100 ports, 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 DB-9 local console serial port, Telnet remote access, SNMP agent, and Web browser.
Software Upgrade Capability: Via TFTP
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
EMI: FCC Part 15 Class A ; CE Mark Class A

· PHYSICAL CHARACTERISTICS
Dimensions: 17.4" (W) x 14.1" (D) x 1.74" (H)
          (442mm (W) x 360mm (D) x 44.2mm (H))
Housing: Metal case; rack mounting hardware included.
Weight: 7.5 lbs. (3.4 Kg)

· ELECTRICAL CHARACTERISTICS
Maximum Switch Power Consumption: 35.4 Watts maximum.
AC Power Input Range: 100~240VAC, 50~60Hz redundant internal universal power supplies, load-sharing and hot-swappable.

· ENVIRONMENTAL CHARACTERISTICS
Operating Temperature: 32°F to 113°F (0°C to 45° C).
Storage Temperature: -14°F to 185°F (-10°C to 45° C).
Operating Humidity: 5 to 95% RH, non-condensing.

· WARRANTY
Five years.

SPECIFICATIONS

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