SIGNAMAX™
CONNECTIVITY SYSTEMS
An AESP Company

Network Connectivity Systems

10/100 Unmanaged Hardened Industrial DIN-rail Mount Switches

Signamax Connectivity Systems' 065-74xx series 5-Port, 8-Port, & 9-Port 10/100 Unmanaged Hardened Industrial DIN-rail Mount Switches have been developed to operate in harsh industrial environments that require ruggedized equipment that can operate in severe temperature extremes. These switches are an affordable solution for outdoor environments, transportation roadside systems, shop floors, and other harsh environments where consistent operation at temperature extremes of -40°F to 167°F (-40°C to 75°C) is necessary. These unmanaged switches are compact, plug-and-play devices that do not require complex user setup.

KEY FEATURES

- Meets NEMA TS1 and TS2 Environmental Requirements for Traffic Control Equipment.
- Meets IEC61000-6-2 EMC Generic Standard Immunity for Industrial Environment.
- UL 1604 Class 1, Division 2 Classified for use in hazardous locations.
- 10/100 Mbps – Full/Half Duplex, Auto-Negotiation, Auto-MDIX.
- 2048 MAC Addresses, 768K bits Buffer Memory, Full Wire-Speed Performance.
- Alarms for Power Failure and Port Link Failure via Relay Output.
- Redundant 1.5 Amp rated, 24 V DC Terminal Block Power Inputs.
  (120-240V AC hardened external power supply sold separately.)
- Supports DIN-rail or Panel Mount installations.

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
065-7405TB	Unmanaged Hardened Switch with 5 10/100BaseT/TX ports, 24 V DC Redundant Power Terminal Block
065-7408ATB	Unmanaged Hardened Switch with 8 10/100BaseT/TX ports, 24 V DC Redundant Power Terminal Block
065-74091FXSCTB	Unmanaged Hardened Switch with 8 10/100BaseT/TX ports + 1 100BaseFX, SC Multimode port, 2 km Span, 24 V DC Redundant Power Terminal Block
065-74091FXSTTB	Unmanaged Hardened Switch with 8 10/100BaseT/TX ports + 1 100BaseFX, ST Multimode port, 2 km Span, 24 V DC Redundant Power Terminal Block (Singlemode models available by special order.)

SPECIFICATIONS

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- **APPLICABLE STANDARDS:**
  IEEE802.3 10BaseT
  IEEE802.3u 100BaseTX / 100BaseFX
  IEEE802.3x Flow Control and Back pressure
- **FIXED PORTS:**
  All Models: 5 (model 065-7405TB) or 8 (models 065-7408ATB, 065-74091FXSCTB, and 065-74091FXSTTB) twisted-pair ports meeting IEEE 802.3 10BaseT & IEEE 802.3u 100BaseTX standard specifications; Category 5 or better cable, 100 meters maximum distance for 100BaseTX, Category 3 or better cable, 100 meters maximum distance for 10BaseT. Auto MDI/MDI-X and Auto-Negotiation Function supported.

  Models 065-74091FXSCTB and 065-74091FXSTTB: 1 100BaseFX port, 2 km Span, with SC Multimode (model 065-74091FXSC) or ST Multimode (model 065-74091FXST) connectors.
- **SWITCH ARCHITECTURE:** Store and Forward; 768 kbits Buffer Memory; 2,048 MAC Addresses
- **PERFORMANCE:**
  Forwarding Rate: 14,880 pps for 10 Mbps, 148,800 pps for 100 Mbps
  Latency: less than 7.1 µs
- **LED STATUS INDICATORS:**
  Global: Power1 (Green), Power2 (Green), Fault (Red)
  10/100BaseT/TX Ports: Link/Activity (Green), 100 Mbps Speed (Amber)
  100BaseFX Port (Models 065-74091FXSCTB and 065-74091FXSTTB): Link/Activity (Green), 100 Mbps Speed (Amber)
- **POWER INPUT REQUIREMENTS:**
  Redundant 10 to 48 Volts DC Terminal Block. Optional hardened power supply sold separately.
- **POWER CONSUMPTION:** 12 V DC @ 0.99 A, 24 V DC @ 0.55 A, 48 V DC @ 0.39 A; 18.72 Watts Maximum.
- **INSTALLATION:**
  Included DIN-rail mount. Optional wall mounting bracket available by special order.
- **ENVIRONMENTAL CHARACTERISTICS:**
  Operating Temperature: -40°F to 167°F (-40°C to 75°C)
  Storage Temperature: -50°F to 200°F (-45°C to 93°C)
  Operating Humidity: 10 to 95% (non-condensing)
- **PHYSICAL CHARACTERISTICS & CERTIFICATIONS:**
  Dimensions & Weight: 1.97 in. x 5.35 in. x 4.33 in., W x H x D (50 mm x 136 mm x 110 mm); 1.76 lb (0.8 kg.)
  Housing: IP-30 protection, metal case
  ESD Standards (IEC 61000-4-2): Enclosure Contact: + / - 4KV; Criteria B; Enclosure Air: + / - 8KV; Criteria B
  Radiated FRI Standards (IEC 61000-4-3): Enclosure Ports: 10V/m, 80 to 1000MHz; Criteria A
  Burst Standards (IEC 61000-4-4): Enclosure Ports: + / - 4KV @ 2.5 KHz; Criteria B;
  D.C. Power Ports: + / - 4KV; Criteria B;
  A.C. Power Ports: + / - 4KV; Criteria B
  Surge Standards (IEC 61000-4-5): Signal Ports: + / - 1KV; Line-to-earth; Criteria B
  D.C. Power Ports: + / - 0.5KV; Line-to-earth; Criteria B
  A.C. Power Ports: + / - 2KV; Line-to-earth; Criteria B
  Induced RFI Standards (IEC 61000-4-6): Signal Ports: 10V @ 0.15 - 80MHz; Criteria A
  D.C. Power Ports: 10V @ 0.15 - 80MHz; Criteria A
  A.C. Power Ports: 10V @ 0.15 - 80MHz; Criteria A
  Earth Ground Ports: 10V @ 0.15 - 80MHz; Criteria A
  Magnetic Field Standards (IEC 61000-4-8): Enclosure Ports: 30A/m @ 50, 60Hz; Criteria A
  Voltage Dip Standards (IEC 61000-4-11): A.C. Power Ports: 30% Reduction for 0.5 period; Criteria B
  Environmental Test Compliance: (IEC 60068-2-6) Vibration Resistance: 5G @ 150Hz; Criterion 3 (Operation/Storage/Transport)
  (IEC 60068-2-27) Shock: 25G @ 11ms (Half-Sine Shock Pulse; Operation);
  50G @ 11ms (Half-Sine Shock Pulse; Storage/Transport)
  (IEC 60068-2-32) Free Fall: 1M (3.281ft.)
  NEMA TS1/2 Environmental Requirements for Traffic Control Equipment
- **EMISSIONS:**
  FCC Class A, Part 15; CE EN6100-6-2, CE EN6100-6-3
- **SAFETY:**
  UL 1604: Classified for ITE Equipment for use in hazardous locations: Class 1, Division 2 group A, B, C, & D:
  Temp Code T4A; -25C < Tamb < 74C
  UL 60950, EN 60950, IEC 60950, IEC 61000-6-2
- **WARRANTY:**
  5 years

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