

SESPM1040-541-LT-xx Series

Self-Enclosed Managed Hardened Gigabit Ethernet PoE++ Switch



(4) 10/100/1000Base-T PoE++ Ports + (1) 10/100/1000Base-T or 100/1000Base-X SFP/RJ-45 Combo Port



Mobile Device
Not Included



Transition Networks' SESP1040-541-LT-xx Switch is a Layer 2 managed switch with (4) 10/100/1000Base-T IEEE 802.3bt (draft) compliant PoE++ ports and (1) combination 10/100/1000Base-T RJ-45 maintenance or 100/1000Base-X SFP uplink port (additional optional ports available), that is ideal for use in security and surveillance, PoE lighting, digital signage and many other applications. It is self-enclosed in an outdoor NEMA 4X/IP66 rated enclosure with 6kV surge protection on each power port, and additional fuse protection eliminates the need for external circuit cross protection between the attached PD and the switch. It can be mounted on a wall or side of a building, or optional brackets are available for mounting on a pole. The switch is available in multiple configurations: as either an AC- or DC-powered power source (PSE) providing 60 Watts of power per port simultaneously on all four ports or up to 90 Watts on individual ports* (not to exceed 240 Watts total), or as a PoE-powered device (PD) providing up to 80 Watts

of total PoE power. The PD version can receive power over Ethernet cable or receive power over copper cable running parallel to a fiber optic cable, and includes a 12V Aux port which can be used to provide auxiliary power to a PC, lighting or other accessories. A second 10/10/1000Base-T or 100/1000Base-X SFP/RJ-45 combo port can be activated by installing an optional Combo Port Module (sold separately). Alternatively, an 802.11 b/g/n wireless Ethernet extension port is available as an option (sold separately) to extend the Ethernet network to devices in locations where new Ethernet cable runs are not practical. All versions are equipped with Near Field Communication (NFC) to allow simple and repeatable configuration of the switch using a user-friendly app on a mobile device prior to connecting or powering up the switch. Bluetooth Low Energy (BLE) allows remote access to alarm information or to read or change equipment settings without requiring physical access using ladders or scissor lifts. The future upgrades will incorporate integrated management software for setup, monitoring and control of connected devices.

Features

- Integrated Management Software
- IEEE 802.3ad LACP Trunking
- Jumbo Frame support 10K bytes max
- Auto-MDI/MDIX
- IPv4 and IPv6
- SNMP
- Link Layer Discovery Protocol (LLDP)
- Secure Shell (SSH)
- Secure Sockets Layer (SSL)
- IEEE 802.1X RADIUS Authentication
- Cable diagnostics
- Auto Power Reset (APR)
- 6 kV surge protection
- PoE port configuration/power management/power scheduling
- Network Time Protocol (NTP) with internet access/Real Time Clock with backup when without internet access
- Tamper detection
- Four Independently Configurable digital I/O channels (optional)
- Web GUI Interface
- CLI
- Syslog
- Telnet Client

*Specific port configuration may apply

Specifications

Standards	IEEE 802.3 IEEE 802.3af/at/bt (draft) compliant IEEE 802.3ab IEEE 802.1 VLAN
Ethernet Ports	(4) 10/100/1000 Mbps RJ-45 ports (1) 100/1000 Mbps SFP/RJ-45 Combo ports CAT5e cable or higher recommended for 60 Watts; CAT6 cable or higher recommended for 90 Watts
Wireless Ethernet Port	(Optional) 802.11b/g/n; RP-SMA connector
Auxiliary Power Port	2-position wire terminal block (≤12AWG) with screw retention
Serial Console Port	RS-232 RJ-45
MAC Address	8K MAC address table
Max Frame Size	10K bytes
Alarm Status	Accessible through CLI access, BLE interface or Integrated Management Software
Dimensions	Width: 10.049" [255.3 mm] Depth: 4.335" [110.1 mm] Height: 8.48" [215.4 mm]
Power Input	AC Version: 90-264VAC hard wired via customer supplied power source or power cord or 90-264VAC provided by internal 500 Watt power supply DC Version: 48VDC (input range 44-59VDC) PD Version: 90 Watts PoE
Power-over-Ethernet	Max PoE Budget 240 Watts 60 Watts for (4) ports simultaneously Up to 90 Watts on any individual port 12VDC auxiliary power (optional on PD version) 2-position bare wire terminal block with screw retention up to 12AWG wire size
Environment	Operating: -40°C to +70°C (Inside Enclosure) External Operating: -40°C to +50°C Storage: -40°C to +85°C Humidity: 5% to 95% (non-condensing) Altitude: 0-10,000 ft. (with de-rating)
Weight	4.8 lbs. [2.18 kg]
Compliance	Emission EN55022, Class A, Immunity EN55024, Surge Protection GR-1089 CORE Issue 4, ITU-T K.20 6 kV on AC lines, Ingress Protection IP66, NEMA 4X, CE, UL, IEC61000-4-5, IEC60950-22, UL60950-1, UL60950-22 (pending)
Warranty	2 Years

Ordering Information

SESPM1040-541-LT-AC

AC-powered self-enclosed switch with (4) 10/100/1000Base-T PoE++ ports and (1) combo 10/100/1000Base-T RJ-45 or 100/1000Base-X SFP port

SESPM1040-541-LT-DC

DC-powered self-enclosed switch with (4) 10/100/1000Base-T PoE++ ports and (1) combo 10/100/1000Base-T RJ-45 or 100/1000Base-X SFP port

SESPM1040-541-LT-PD

PoE-powered self-enclosed switch with (4) 10/100/1000Base-T PoE++ ports and (1) combo 10/100/1000Base-T RJ-45 or 100/1000Base-X SFP port

Optional Accessories (sold separately)

Hardened SFP Modules

SESPM-2P-1G-CP

Additional Combo Port Module to activate a 2nd combination 10/100/1000Base-T maintenance port or 100/1000Base-X combo uplink port
Note: SFP from included combo port is only usable on PD version when unit is powered with parallel power and fiber cables as opposed to PoE.

Note: This module cannot be used with Wireless Extension Port Module SESP1040-3P-BGN-WE

SESPM-3P-BGN-WE

IEEE 802.11b/g/n Wireless Extension Port Module

Note: This module cannot be used in conjunction with Additional Combo Port Module SESP1040-2P-1G-CP

SESPM-4P-DIG

Digital Input/Output Module with 4 optical isolators

SESPM-4P-ANTKIT-BGN (2 required per link)

IEEE 802.11b/g/n Wireless Antenna Kit, includes antenna, surge protector, 48" cable and wall/pole mounting kit

SESPM-4P-PMB

Pole Mount Bracket Kit

Note: For poles ≥4" diameter, use pole straps (not provided) in conjunction with bracket. For poles ≤4" diameter, use a 1 3/8" x 1/4" U-bolt (not provided) in conjunction with bracket.