

# 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



Transition Networks' SESP1040-541-LT-xx Switch is a Layer 2 managed switch with (4) 10/100/1000Base-T IEEE 802.3bt compliant PoE++ ports and (1) combination 10/100/1000Base-T RJ-45 or 100/1000Base-X SFP 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 the AC line. Additional fuse protection on the PoE ports and included data port eliminates the need for external circuit cross protection between the attached powered device 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 ≤90 Watts per port (not to exceed 180 Watts total on the AC-powered unit or 240 Watts total on the DC-powered unit), or as a PoE-powered device (PD) which is also a PSE

providing up to 80 Watts of total PoE power. The PD version requires PoE power from an IEEE 802.3bt Type 4 Class 8 compliant PSE, or it can receive power over copper cable running parallel to a fiber optic cable for data (i.e. composite cable). The PD also includes a 12V Aux port which can be used to provide auxiliary power to a PC, lighting or other accessories. A second combo 10/100/1000Base-T RJ-45 maintenance or 100/1000Base-X SFP uplink port can be activated by installing an optional Combo Port Module. Alternatively, an IEEE 802.11 b/g/n wireless Ethernet extension port is available as an option to extend the Ethernet network to devices in locations where new Ethernet cable runs are not practical. An optional Digital Input/Output Module with four optical isolators configurable as either input or outputs provide connections for alarms, event notifications or other customer designated items. 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 switch also incorporates integrated management software for setup, monitoring and control of connected devices.

#### Features

- Management: Web GUI, CLI, SNMP
- Monitoring: SNMP, Syslog
- Jumbo Frame support 10K bytes max
- Auto-MDI/MDIX
- IPv4
- Secure Shell (SSH) / Secure Sockets Layer (SSL)
- Authentication: RADIUS/TACACS+
- Auto Power Reset (APR)
- 6 kV surge protection
- PoE port configuration/power management/power scheduling
- VLAN: Port based VLAN, IEEE 802.1Q tag-based, up to 4K VLAN entries, Private VLAN
- DMI
- Cable diagnostics
- Tamper detection
- NTP with onboard RTC for backup
- Four Independently Configurable digital I/O channels (optional)

#### Coming Soon Features

- IPv6
- LACP Trunking
- Link Layer Discovery Protocol (LLDP)
- Q in Q

#### Power Cord Preinstalled

**Note: Only for SESP1040-541-LT-AC**

To order the AC version with the corresponding country specific power cord, add the extension from the list below to the end of the SKU; Ex: SESP1040-541-LT-AC-xx

#### -xx = Country Code

-NA = North America, -EU = Europe,  
-UK = United Kingdom, -SA = South Africa,  
-JP = Japan, -OZ = Australia, -BR = Brazil,  
-AR = Argentina

#### Specifications

|                                 |  |
|---------------------------------|--|
| Standards                       | IEEE 802.3<br>IEEE 802.3af/at/bt (Pending Certification)<br>IEEE 802.3ab<br>IEEE 802.1Q<br>IEEE 802.3AX *Coming Soon*<br>IEEE 802.1X *Coming Soon*<br>IEEE 802.1ad *Coming Soon*   |
| Ethernet Ports                  | (4) 10/100/1000 Mbps RJ-45 ports<br>(1) 100/1000 Mbps SFP/RJ-45 combo ports<br>CAT5e cable or higher recommended for 60 Watts; CAT6 cable or higher recommended for 90 Watts   |
| 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: 10.05" [255.3 mm]<br>Depth: 4.34" [110.1 mm]<br>Height: 8.48" [215.4 mm]  |
| Power Input                     | AC Version: Universal input 120-240VAC<br>Low Voltage DC Version: 48VDC (input range 40-59VDC)<br>PoE Powered PD Version: 90 Watts PoE   |
| Power Consumption (no PoE load) | AC Version: < 20 vA<br>DC Version: < 10 W<br>PoE Powered PD Version: ≤ 5 W   |
| Power-over-Ethernet             | Max PoE Budget ≤90 Watts on individual ports (specific port configuration may apply)<br>AC Version: 180 Watts total<br>DC Version: 240 Watts total<br>PD Version: 80 Watts total<br>12VDC auxiliary power (on PD version only)<br>2-position bare wire terminal block with screw retention up to 12AWG wire size                             |
| Environment                     | Operating: -30°C to +70°C (Inside Enclosure)<br>External Operating: -40°C to +50°C<br>Storage: -40°C to +85°C<br>Humidity: 5% to 95% (non-condensing)  |
| Weight                          | 4.8 lbs. [2.18 kg]   |
| Compliance                      | Emission EN55022, Class A, Immunity EN55024, Meets Surge Protection as specified in GR-1089 CORE Issue 4; ITU-T K.21 6 kV on AC line, Ingress Protection IP66, NEMA 4X, CE, IEC61000-4-2 (ESD), IEC61000-4-4 (EFT), IEC61000-4-5 (Lightning), IEC60950-1, IEC60950-22, UL EN60950-1, NFC: NFC Forum Type 2 Tag, ISO/IEC 14443A; BLE: BLE 4.2 |
| Warranty                        | 2 Years  |

#### Ordering Information

##### SESPM1040-541-LT-AC

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

Note: power cord preinstalled - see note

##### SESPM1040-541-LT-DC

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

##### SESPM1040-541-LT-PD

PoE-powered Type 4 Class 8 self-enclosed switch with (4) 10/100/1000Base-T PoE++ ports + (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 \*Coming Soon\*

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 and a 12V integral power source with 1500VDC isolation

##### SESPM-4P-ANTKIT-BGN \*Coming Soon\*

IEEE 802.11b/g/n Wireless Antenna Kit: includes antenna, surge protector, 48" cable and wall/pole mounting kit (2 required per link)

##### SESPM-4P-PMB

Pole Mount Bracket Kit

Note: screws, pole straps, or rubber lined zip ties can be used in conjunction with brackets (not included as pole sizes vary)

##### SESPM-4P-FMKIT

Fiber Management Kit: Includes fiber management tray, mounting screws, and alternative cable gland / inserts