

## 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

Lantronix's 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  $\leq 90$  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 1000Base-X SFP uplink port can be activated by installing an optional Combo Port Module. Alternatively, an optional Passive PoE Combo Port Module can be added to provide 24VDC power to non-standard PoE powered devices such as wireless radios, eliminating the need for an additional external power source for those devices. 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+
- Link Layer Discovery Protocol (LLDP)
- Auto Power Reset (APR)
- DHCP Server
- 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)

## Specifications

|                                 |                                                                                                                                                                                                                                                                                                                                                                               |                                             |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Standards                       | IEEE 802.3<br>IEEE 802.3af<br>IEEE 802.3at                                                                                                                                                                                                                                                                                                                                    | IEEE 802.1Q<br>IEEE 802.3ab<br>IEEE 802.3bt |
| 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;<br>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]                                                                                                                                                                                                                                                                                                                                                            |                                             |
| Certifications                  | Emission EN 55022, 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, EN 61000-4-2 (ESD), EN 61000-4-4 (EFT), EN 61000-4-5 (Lightning), EN 61000-4-6, EN 61000-4-8, EN 61000-4-11, UL 62368-1, CSA 62368-1-14, 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 Modules for Port 6

(Note: only 1 of these modules can be used at a time in Port 6)

### SESPM-2P-1G-CP

Additional Combo Port Module to activate a 2nd combination 10/100/1000Base-T maintenance port or 1000Base-X combo uplink port  
Note: On PD version, RJ-45 from included combo port is utilized for PoE input, so included combo port SFP is only available when unit is powered with parallel power and fiber (composite) cable instead of PoE.

### SESPM-2P-24V-CP

Passive PoE Combo Port Module to activate a 2nd combination 10/100/1000Base-T maintenance port with 24VDC for powering 24V non-standard PoE powered devices OR to activate a 2nd 1000Base-X uplink port

## Optional Accessories (sold separately)

### Hardened SFP Modules

#### SESPM-4P-DIG

Digital Input/Output Module with 4 optical isolators and a 12V integral power source with 1500VDC isolation

#### 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

## 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 | -LA = Latin America  |
| -EU = Europe        | -UK = United Kingdom |
| -SA = South Africa  | -JP = Japan          |
| -OZ = Australia     | -BR = Brazil         |