MANAGED LAYER 2 HARDENED GIGABIT ETHERNET POE++ SWITCH INTEGRATED WITH PERCEPXION

(8) 10/100/1000Base-T IEEE 802.3bt + (2) 10G/5G/2.5G/1G SFP+ Multi-Gig Slots

The LS Series offers a small footprint and hardened temperature rating plus cloud-based management making this new PoE++ switch ideal for IoT and IP devices throughout smart buildings or in rugged environments.

The LSS2200-8P is a managed Layer 2+ Gigabit Ethernet switch offering (8) 1GBase-T interfaces with full IEEE 802.3bt 90W support, (2) 10/5/2.5/1GBase-T multi-gigabit SFP+ slots, (2) programmable Digital Input/Outputs with 12V power output, and (1) RJ-45 console port. The switch accepts simplified transfer of pre-configurations through the LSS2200-8P Mobile App using Near Field Communications (NFC) prior to power up or dispatch, saving valuable time at the installation site.

This switch comes Integrated with the Lantronix cloud based Percepxion™ software platform, providing comprehensive device life cycle management, enterprise application integration, and data analytics, all through a single pane of glass.

This switch offers 720W total PoE budget for powering LED lighting, high-powered security and surveillance cameras and other IP devices. Its small footprint and hardened temperature rating make it ideal for powering IP devices distributed throughout a building.

The LSS2200-8P also incorporates Bluetooth Low Energy (BLE) for wireless CLI without requiring physical access to troubleshoot, configure, or reset the device. Cloud management and APIs for integrating with building management systems make the switch very easy to deploy and manage and simplifies configuration, installation, and troubleshooting of devices to help lower construction and maintenance costs.

The LSS2200-8P helps commercial building owners and managers improve building efficiency and enhance the tenant and guest experience within buildings.

End-to-End Solutions

PERCEPXION™

ELEVEL Technical Services

Applications:

- Smart Buildings
- PoE Lighting
- Security & Surveillance

Markets:

Small to mid-size networks

Enterprise networks

Security and surveillance

Retail and consumer

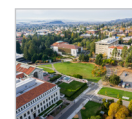| Features	Benefits
Secure connectivity	Easy deployment with cloud management and APIs for integrating with building management systems
Full IEEE 802.3bt on all ports	90W PoE on each port (total 720W budget) enables powering of LED lights, security and surveillance cameras and other high-powered IP devices to improve building efficiency
Small footprint/ hardened temperature rating	Fits conveniently within cabinets or other small spaces for de-centralized PoE applications
Special PoE features	Minimize power interruptions to connected PDs with Always-On PoE (which allows the switch to retain PoE output during a warm re-boot) and Ultra-fast PoE (which enables PoE output within approximately 5 seconds of a cold start)
Expansion port	Allows flexibility for adding future functionality within the existing footprint

LANTRONIX

Specifications

Standards

- IEEE 802.3 (Ethernet)
- IEEE 802.3ae (10GE)
- IEEE 802.1AB (LLDP)
- IEEE 802.1w (Rapid Spanning Tree)
- IEEE 802.3u (Fast E)
- IEEE 802.3af/at/bt (PoE)
- IEEE 802.3x (flow control)
- IEEE 802.3z (Gig E)
- IEEE 802.1Q (VLANs)

Network Interface

- Protocols: CSMA/CD
- Full line rate, non-blocking architecture
- Connectors: (8) 10/100/1000Base-T PoE++ ports, (2) 10G/5G/2.5G/1G SFP+ slots, (1) Console RJ-45 port, (2) Digital Input/Outputs w/12VDC power output
- MAC Address: 16K MAC address table
- BLE
- NFC

Dimensions

- Width: 3.313" [84.14 mm]
- Depth: 5.125" [130.18 mm]
- Height: 7.145" [181.48 mm]
- Weight: 2.9 lbs. [1.3 kg]

Power

- Input 46-56VDC redundant power inputs:
  46VDC for IEEE 802.3af
  52VDC for IEEE 802.3at
  54VDC for IEEE 802.3bt
- Power Consumption (max): 750 Watts with full IEEE 802.3bt 90W load on all ports
- Digital I/O:
  Input:
  > Vin low max 5.4V
  > Vin high min 7.2V
  > Vin max 34V
  > Current 66uA typ (Vin 5.4/100K)
  > Isolation voltage 2250 VDC
  Output:
  > Drive current 60mA max
  > Voltage 34V max
  > Isolation voltage 2250 VDC
  Power supply:
  > 12V at 70mA max (Tolerance - Min 11.2V, Max 13.2V)
  > Isolation 1500 VDC

Power-over-Ethernet

- Max PoE Budget 720 Watts; 90 Watts for (8) ports simultaneously

Environment

- Operating: -40°C to +65°C
- Storage: -40°C to +85°C
- Humidity: 5% to 95% (non-condensing)
- Altitude: 900 feet (0-10,000 feet with de-rating x 0.57)
- IP31

Certifications

- FCC Class A; CE; UL 62368-1

MTBF

- Telcordia SR332 Issue 2, Environment: Ground Benign, Controlled, 30°C 427,983 hours

Warranty

- 5 Years

Features

- **Layer 2 Switching**

  – RSTP
  – VLANS (supports up to 4K VLANs), IEEE 802.1Q tag-based VLAN, MAC-based VLAN, Management VLAN
  – Supports Jumbo Frames up to 10K bytes
  – Static routing
  – Last gasp
  – DHCP Client
  – DHCP Server
  – DHCP Relay

  – LLDP/LLDP-MED
  – Port Security
  – Port Mirroring

- **PoE Features**

  – IEEE 802.3af
  – IEEE 802.3at
  – IEEE 802.3bt
  – Auto Power Reset (APR)
  – Always-On PoE
  – Ultra-fast PoE
  – PoE Scheduling

- **Security**

  – SSH v1 and v2
  – SSL
  – Port Security

- **Management**

  – The cloud based Percepxion™ IoT Edge Solutions Platform
  – Web Management through HTTP/HTTPS, CLI/Telnet/SSH, SNMP V1/V2c/V3 (monitoring)
  – Firmware Update through TFTP and HTTP/HTTPs
  – RESTful APIs for monitoring
  – Syslog
  – Smart Device Manager (SDM) software

- **Mounting**

  – DIN Rail (Included)
  – Wall (Optional)

Ordering Information

Part Number	Description
LSS2200-8P	(8) 10/100/1000Base-T IEEE 802.3bt + (2) 10G/5G/2.5G/1G SFP+ Multi-Gig Slots

Optional Accessories	Description
25172	Power Supply Input: 85-277VAC, 80-370VDC Output: 48 ~ 57VDC, 20A, 960 Watts
25160	Power Supply Input: 90-264VAC, 127-370VDC Output: 48 ~ 55VDC, 10A, 480 Watts
SFP/SFP+/SFP28 Modules	See Lantronix.com for wide variety
WMB-LSS	Wall Mount Bracket Kit

Learn more at lantronix.com/LS-Series

LANTRONIX