SM24TBT2DPB Series

Enterprise Switch



MANAGED GIGABIT PoE++ SWITCH INTEGRATED WITH PERCEPXION™ SOFTWARE

(24) 10/100/1000Base-T Ports + (2) 100/1000Base-X SFP/RJ-45 Combo Ports

This switch is a high-performance Layer 2 managed switch with 52 Gbps switching capacity. It provides (24) 10/100/1000Mbps copper ports with IEEE 802.3bt PoE++ capability and (2) additional 100/1000Mbps dual speed SFP/RJ-45 combo ports. The SM24TBT2DPB complies with the latest IEEE 802.3bt PoE++ standard and supplies up to 90 Watts per port. It can provide full PoE++ output on all 24 ports when equipped with the dual hot-swappable PS-ACDC-1200 power supplies. For applications that don't require all 24 ports at 90 Watts per port select the SM24TBT2DPB-920 version for the perfect balance of PoE+ and PoE++ ports.

These PoE++ Switches come 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. These switches provide the benefits of ease of use in IP surveillance, Wireless Access Point and other applications.

The switch also includes DMS, accessible by Percepxion or the local web manager, provides advanced configuration and management of all IP addressable devices in the network, including a graphical network topology, floor map creator, device map view, traffic monitoring, and network diagnostics for troubleshooting.

Features	Benefits
IEEE 802.3bt/at/af compliant	Compliance with latest PoE standard allows the switch to provide up to 90W per port
Full 90W per port on all 24 ports simultaneously	Enables higher power PoE applications such as LED lighting or digital signage on all ports
Hot-swappable dual power modules	Allows for scaling of PoE power depending on needs or provides redundancy to eliminate system downtime
Auto Power Reset	Automatically monitors and reboots PDs when no response to ICMP is received
Always on PoE	Allows warm reboot of the switch without affecting the PoE output to the attached PDs.
Restful API	Allows switch to be monitored and managed with integration into Network Management Systems and Video Management Systems

End-to-End Solutions

LANTRONIX PERCEPXION

LEVEL Technical Services

Applications:

- LED Lighting, supplying power and connectivity to lighting and other smart building IoT devices
- IP Surveillance, supplying power and data to IP & PTZ cameras
- Supplying power and data to thin clients, POS system, digital signage

Markets:



PoE Lighting



Smart Building



Security & Surveillance



POS Systems



Digital Signage

LANTRONIX

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Specifications

Standards

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3z
- IEEE 802.3ae
- IEEE 802.3x
- IEEE 802.3ad
- IEEE 802.1D
- IEEE 802.1w
- IEEE 802.1s
- IEEE 802.1Q
- IEEE 802.1p
- IEEE 802.1ad
- IEEE 802.1AB
- IEEE 802.3af
- IEEE 802.3at
- IEEE 802.3bt
- IEEE 802.3az

Connectors

- (1) RJ console port
- (24) 10/100/1000 RJ-45 ports
- (2) 100/1000 SFP/RJ-45 combo ports

Protocols

- CSMA/CD

Technology

- Store-and-Forward switching architecture

MAC Address

- 8K MAC address table

Backplane

- 52 Gbps

Dimensions

- Width: 17.4" [442 mm]
- Depth: 11.8" [300 mm]
- Height: 1.73" [44 mm]

Power Input

- Dual Hot-Swappable Power Supplies; Power Redundancy, Failover: PS-ACDC-1200
  - AC low-line: 100 - 120VAC / AC high line: 200 - 277VAC
  - HVDC low-line : 194 - 254VDC / HVDC high-line: 306 - 334VDC
- Dual Hot-Swappable Power Supplies; Power Redundancy, Failover: PS-AC-920
  - 100-240VAC

Power Consumption

- Maximum Power Consumption without PoE:
  - 79 Watts with dual AC power modules
  - 52 Watts with single AC power module

Power-over-Ethernet

- Max 90 Watts output per port
- PS-ACDC-1200: 1080W single PS, 2160W dual PS
- PS-AC-920: 900W single PS, 1800W dual PS

Environment

- Operating: 0°C to +40°C
- Humidity: 10% to 90% (non-condensing)

Weight

- SM24TBT2DPB & SM24TBT3DPB-920 (single power supply) = 11.3 lbs [5.12 kg]
- SM24TBT2DPB-2XPS (dual power supplies) = 13.3 lbs [6.03 kg]

Certifications

- FCC Class A, CE, UL62368-1

Warranty

- 5 Years

Features

- Hot-swappable dual power supply modules
- Supports IPv4/IPv6 dual protocol stack
- Supports Jumbo Frame up to 9K bytes
- Authentication – RADIUS, TACACS+
- Security - Supports SSH v1/SSH v2/SSL
- Port based or tagged (IEEE 802.1Q) VLAN, MAC based, Management VLAN and Private VLAN Edge
- DHCP Relay, DHCP Server
- L2/L3/L4 ACLs Support MAC ACL, IP standard/extended ACL
- LLDP (Link Layer Discovery Protocol)
- IEEE 802.3az Energy Efficiency
- IP Source Guard, Port Security

PoE Features

- Compliant with IEEE 802.3bt PoE++
- Compliant with IEEE 802.3at PoE+
- Compliant with IEEE 802.3af PoE
- IEEE 802.1AB LLDP-MED Configuration
- PoE Configuration
- PoE Scheduling
- Auto Power Reset
- DHCP per Port

Device Management System (DMS)

- Graphical Monitoring – Topology view, Floor view, Map view
- Traffic Monitoring
- Troubleshooting – Network diagnostic, protection mechanism, performance and link management
- Always on PoE

Software Features

- Management: Web Management, SNMP V1/V2c/V3, Telnet, CLI
- Port Trunk: Supports IEEE 802.3ad port trunk with link aggregation control protocol (LACP) and static trunk
- IGMP: Support IGMP Snooping V1/V2/V3, GVRP, IGMP Proxy, and IGMP Querier
- Quality of Service: Supports 8 hardware queues. Strict priority and WRR
- Spanning Tree: Supports IEEE 802.1s MSTP, IEEE 802.1w RSTP and IEEE 802.1D STP Compliant
- Rapid Ring
- VLAN: Port Based VLAN, IEEE 802.1Q tag-based, up to 4k VLAN entries, QinQ, MAC-based VLAN, Private VLAN, Voice VLANs and Management VLAN
- Firmware Update, configure backup/restore through TFTP and HTTP

Ordering Information

Part Number	Description
SM24TBT2DPB-DE	(24) 10/100/1000Base-T ports + (2) 100/1000Base-X SFP/RJ-45 combo ports *(includes 19" rack mount brackets, (1) PS-ACDC-1200 and* **no Saf-D adapter cable or power cord - for Digital Electricity* applications only***)*
SM24TBT2DPB-xx	(24) 10/100/1000Base-T ports + (2) 100/1000Base-X SFP/RJ-45 combo ports *(includes 19" rack mount brackets, (1) PS-ACDC-1200,* **(1) Saf-D adapter cable and *country specific power cord** *- see chart below)*
SM24TBT2DPB-920-xx	(24) 10/100/1000Base-T ports + (2) 100/1000Base-X SFP/RJ-45 combo ports *(includes 19" rack mount brackets, (1) PS-AC-920 and* ***country specific power cord** *- see chart below)*
SM24TBT2DPB-2XPS-xx	(24) 10/100/1000Base-T ports + (2) 100/1000Base-X SFP/RJ-45 combo ports *(includes 19" rack mount brackets, (2) PS-ACDC-1200,* **(2) Saf-D adapter cables and *country specific power cords** *- see chart below)*

Accessories Number	Description
PS-AC-920-XX	Secondary AC Modular Power Supply *(includes* ***country specific power cord** *- see chart below)*
PS-ACDC-1200-DE	Secondary AC & DC Modular Power Supply **No Saf-D adapter cable or power cord - for Digital Electricity* applications only**
PS-ACDC-1200-xx	Secondary AC & DC Modular Power Supply *(includes* **(1) Saf-D adapter cable and *country specific power cord** *- see chart below)*

***Power Cord Included**

To order the corresponding country specific power cord, add the extension from the list below to the end of the SKU; Ex: SM24TBT2DPB-NA

-xx = Country Code

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

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Learn more at lantronix.com/sm24tbt2dpb

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