SM24TBT2DPB

MANAGED GIGABIT ETHERNET PoE++ SWITCH

(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. The SM24TBT2DPB can be powered by low-line and high-line AC or DC power and Digital Electricity*, making it ideal for use in a wide variety of building applications.

Features	Benefits
IEEE 802.3bt/at/af compliant	Compliance with latest PoE standard allows the switch to provide up to 90W per port
Supports full 90W per port on all 24 ports simultaneously	Enables higher power PoE applications such as LED lighting or digital signage on all ports
Flexible powering options	Accommodates low-line and high-line AC or DC power and Digital Electricity*, making it ideal for use in a wide variety of building applications
Hot-swappable dual power modules	Allows for scaling of PoE power depending on needs or provides redundancy to eliminate system downtime
Saf-D power connector	Provides increased safety features for connecting higher voltage DC or hybrid AC/DC systems.
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
Ultra-fast PoE	Enables PoE output to attached PDs within 5 seconds after a cold start
Restful API	Allows switch to be monitored and managed through Cloud Management Systems or integrated with Network Management Systems and Video Management Systems

Applications:

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

Markets:

PoE Lighting

Smart Building

Security & Surveillance

POS Systems

Digitial Signage

Thin Clients

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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

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
- AC low-line: 900W (single PS), 1,800W (dual PS)
- AC high-line: 1,080W (single PS), 2,160W (dual PS)
- HVDC low-line: 900W (single PS), 1,800W (dual PS)
- HVDC high-line: 1,080W (single PS), 2,160W (dual PS)

Environment

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

Weight

- SM24TBT2DPB (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
- Always on PoE
- Ultra-fast 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

Device Management System (DMS)

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

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 cables and *country specific power cord** *- see chart below)*
SM24TBT2DPB-2XPS-DE	(24) 10/100/1000Base-T ports + (2) 100/1000Base-X SFP/RJ-45 combo ports *(includes 19" rack mount brackets, (2) PS-ACDC-1200 and* **no Saf-D adapter cable or power cords - for Digital Electricity* applications only**)
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
SFP Modules	Check out our full portfolio of SFPs on Lantronix.com
PS-ACDC-1200-DE	Secondary AC & DC Modular Power Supply (1080 Watts PoE Output Max) Warranty: 5 Years **No Saf-D adapter cable or power cord - for Digital Electricity* applications only**
PS-ACDC-1200-xx	Secondary AC & DC Modular Power Supply (1080 Watts PoE Output Max) Warranty: 5 Years *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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SM24TBT2DPB-NA PS-ACDC-1200-NA PS-ACDC-1200-BR PS-ACDC-1200-DE PS-ACDC-1200-EU PS-ACDC-1200-JP PS-ACDC-1200-LA PS-ACDC-1200-OZ PS-ACDC-1200-SA PS-ACDC-1200-UK SM24TBT2DPB-2XPS-BR SM24TBT2DPB-2XPS-DE SM24TBT2DPB-2XPS-EU SM24TBT2DPB-2XPS-JP SM24TBT2DPB-2XPS-LA SM24TBT2DPB-2XPS-NA SM24TBT2DPB-2XPS-OZ SM24TBT2DPB-2XPS-SA SM24TBT2DPB-2XPS-UK SM24TBT2DPB-AR SM24TBT2DPB-BR SM24TBT2DPB-DE SM24TBT2DPB-EU SM24TBT2DPB-JP SM24TBT2DPB-LA SM24TBT2DPB-OZ SM24TBT2DPB-SA SM24TBT2DPB-UK SM24TBT2DPB-920-NA