

Data Sheet

TJ1400P-M4-48x10G/25G Next Gen Switches



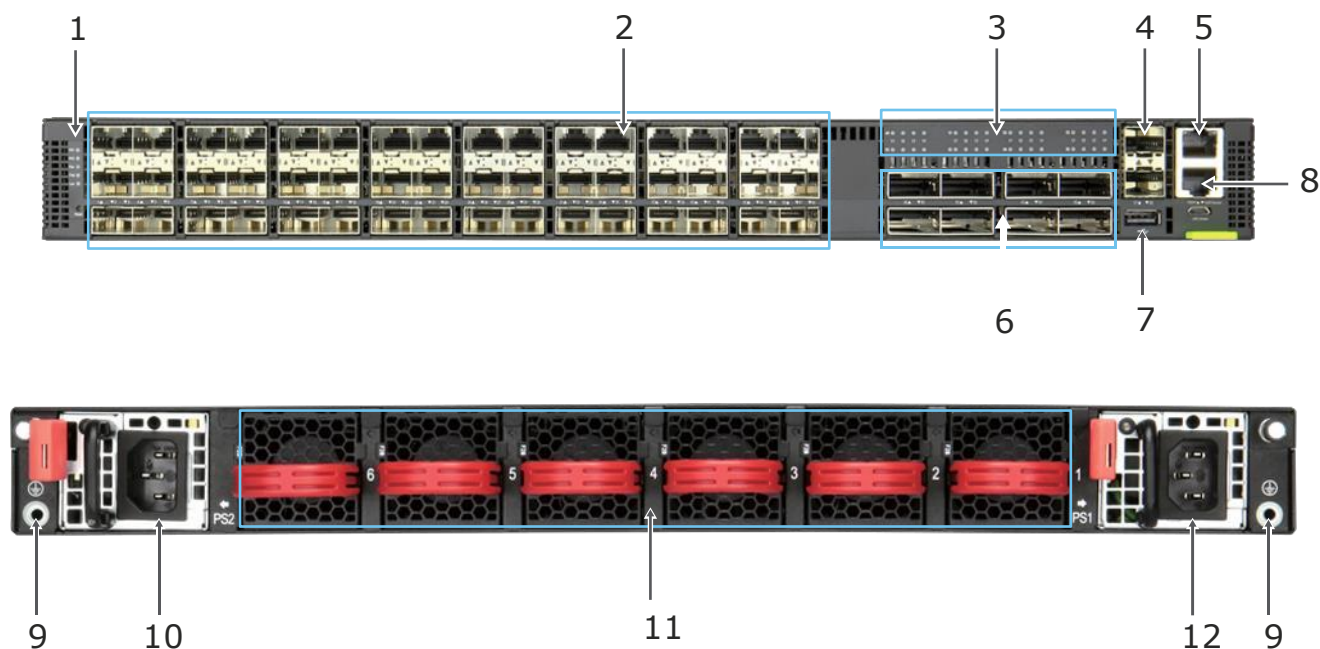
The Tejas TJ1400P-M4-48x10G/25G switch is a Top-of-Rack (TOR) switch for high-performance data centers. In a compact 1RU form factor, the switch provides line-rate L2 and L3 switching across the 48 x SFP28 + 8 x QSFP28 ports, and each QSFP28 port can be configured as 4 x 25 GbE, 1 x 40 GbE, or 4 x 10 GbE by using DAC breakout cables. The TJ1400P-M4-48x10G/25G can be deployed as a TOR switch supporting 10/25 GbE to servers with 40/100 GbE uplinks. This open network switch is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System (NOS) software, including the open source plus commercial NOS offerings.

Key Features and Benefits

- Deploy as TOR switch supporting 10 or 25 GbE to servers, with 40 GbE, or 100 GbE uplinks.
- 48 x SFP28 + 8 x QSFP28 switch ports, each QSFP28 supporting 1 x 100 GbE or 1 x 40 GbE, or via breakout cables, 4 x 25 GbE, or 4 x 10 GbE.
- Layer 2 or Layer 3 forwarding of 4 Tbps.
- Supports hot/cold aisles with front-to-back or back-to-front airflow SKUs.
- All ports on front; PSUs and fans accessible from rear.
- Hot-swappable, load-sharing, redundant AC or -48V DC PSUs.
- 5+1 redundant, hot-swappable fan modules.
- Energy efficient.
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source and commercial NOS offerings.

TJ1400P-M4-48x10G/25G

Next Gen Switches



Numbering	Description	Numbering	Description
1	System LEDs	7	USB storage port
2	48 x 25G/SFP28 ports	8	Console port
3	Port indicators	9	Grounding point
4	2 x 10G management ports	10	PSU 2
5	Management port	11	Hot-swappable 5 + 1 redundant fans
6	8 x 100G/QSFP28 ports	12	PSU 1

Technical specifications

Ports

■ Switch Ports:

- 48 x 25 GbE SFP28 plus 8 x 100 GbE QSFP28 ports:
- Each SFP28 supports 1 x 1 GbE (fixed speed, no Auto-negotiation) or 10GbE or 25GbE single rate transceivers, AOC, and DAC
- RJ-45 transceivers are supported with H/W version R01G or newer.
- Each QSFP28 supports 1 x 40/100 GbE or 4 x 25 GbE or 4 x 10 GbE per port using breakout cables

Note: When a DAC cable is used in a topology, link issue may be encountered if the CR4 Auto-Negotiation/Link Training does not turn on. This can be solved by manually enabling CR4 Auto Negotiation/Link Training.

■ Management Ports on Port

- Side: 1 x RJ-45 serial console
- 1x RJ-45 100/1000BASE-T management
- 1 x USB Type A storage

- Supported Transceivers and Cables: 10GBASE-RJ45

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Next Gen Switches



10G-DAC/AOC Cable
25GBASE-SR/LR
25G-DAC/AOC Cable
40GBASE-SR4/LR4
40G-DAC/AOC Cable
100GBASE-SR4/CWDM4/LR4
100G-DAC/AOC Cable

Key Components

- Switch Silicon: Broadcom
BCM56873 Trident 3
No PHYs
- CPU Modules:
Intel® Xeon® D-1518 processor 4-
Core
2.2 GHz
DDR4: SO-DIMM 8 GB x 2
SPI Flash: 16 MB x2
m.2 SSD: 64 GB MLC

Performance

- Switching Capacity: 4 Tbps full duplex
- Forwarding Rate: 2.9 Bpps

- Jumbo frames support up to 9K Bytes
- Packet Buffer Size: 32 MB
integrated packet buffer
- MAC Addresses: 32 K min./288 K max.
- VLAN IDs: 4 K
- IPv4: 16 K min./168 K max. host
entries; 32 K LPM entries with TCAM-
only mode
- IPv6: 8K min/100 K max. host
entries; IPv6/128= 8 K TCAM-only
mode

Physical and Environmental

- Dimensions (WxDxH): 43.84 x 53.6
x 4.35 cm (17.26 x 21.1 x 1.71 in.)
- Weight: 10 kg (22.05 lb), with
two installed PSUs
- Operating Temperature:
0°C to 50°C
- Storage Temperature:
-40°C to 70°C (-40°F to 158°F)
- Operating Humidity:
5% to 95% non-condensing

Software-Enabled Transformation



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