Data Center Switching

Scalable Fabric for Private and Public Cloud Infrastructure

10GbE Data Center Switch
40GbE Data Center Switch
100GbE Data Center Switch

ES5652BT1   Top-of-Rack Switch

The ES5652BT1 switch is designed for high-availability data center environments with a high port density of 48 x 10GbE ports and 4 x 40GbE ports in a 1RU enclosure. The switch includes redundant, hot-swappable, load-sharing AC or DC PSUs; a hot-swappable fan tray with 3+1 redundant fans; and port-to-power and power-to-port airflow direction options. Meeting network scaling requirements of enterprise and cloud data centers, the ES5652BT1 can be deployed as a top-of-rack switch or as part of a distributed spine network, providing full line-rate switching at Layer 2 or Layer 3 across all ports.

Port Configuration

- 48 x SFP+ ports supporting 1 GbE or 10 GbE
- 4 x QSFP+ ports supporting 40 GbE or 4 x 10 GbE
- Management Ports on port side
    - 1 x RJ-45 serial console
    - 1 x RJ-45 100/1000BASE-T management port
    - 1 x USB type A storage port
- Line rate L2, L3 switching
- Redundant Power: AC and DC PSU options
- Air flow: port-to-power or power-to-port SKUs

Key Features

- Performance: 1.28 Tbps line rate L2, L3 switching
- Forwarding Rate: 960 Mpps
- Latency (RFC2544): 860ns to 1.2 µs
- L2 switching: VLAN, LAG, Q-in-Q, TRILL
- DCBX, 802.1Qau QCN, 802.1Qaz ETS, 802.1Qbb PFC
- 802.1Qbg VEPA, VN-Tag
- L3 Routing: IPv4/IPv6, OSFP, BGP, ECMP, VRRP
- MAC-in-MAC, L3 GRE
- MAC Address Table: 128k
- L3 Hosts, L3 Routes: 16k, 16k
- Packet Buffer: 9 MB shared buffer pool
- Priority Queues: 8 queues per port
- OpenFlow enabled
- CPU: P2020 dual core 1GHz

Environmental

- Operating Temp: 0℃ to 40℃
- Storage Temp: -40℃ to 70℃
- Operating Humidity: 5 to 95 % (non-condensing)
- Temperature: IEC 68-2-14
- Drop: ISTA 2A , IEC 68-2-32
- Vibration: IEC 68-2-36, IEC 68-2-6;   Shock: IEC 68-2-29
- RoHS-6 Compliant

Physical

- Size: 440 x 470 x 44 mm (W x D x H)
- Weight : 7.3 kg (16.1 lbs)
- 2 load-sharing, hot-swappable, redundant PSUs
- AC Power: 90-264 VAC at 50-60 Hz, 6 A
- DC Power: -48 to -72 VDC, 3-10 A
- Power Consumption: 182Watts typical
- Power Consumption: 232 Watts maximum
- Fan Tray: hot swappable with 3+1 redundant fans