

TGSM602-NF48 10G Top-of-Rack (TOR) Switch



10G TOR Switch for Data Center and Cloud Computing

◆ Product Highlights

- ◆ High Density 10GbE System with 40GbE uplink
- ◆ X86 CPU Board Support
- ◆ Ultra-low Latency
- ◆ Maximum Layer 2 or Layer 3 forwarding of 1.44 Tbps
- ◆ Hot-swappable, Load-Sharing, redundant power supply
- ◆ 4 + 1 redundant, hot-swappable fan modules
- ◆ ONIE Ready



Product Overview

The TGSM602-NF48 is a switch of 48-Port 10GbE(SFP+) with 6-Port 40GbE(QSFP+) suitable for TOR and Datacenter Application. It is ideally suited for deployment at the server access layer in large enterprise data centers, also designed for deployment at the core layer of data centers at medium-size enterprises.

The huge benefit saves the space in the datacenter application with the maximum connectivity to the servers. It also features the best CP per 10G and 40G bandwidth and the best power consumption efficiency.

TGSM602-NF48 is designed with flexible Redundant Power Supplies to fulfill different user scenarios. 350W RPUS for the most datacenter application is good enough to supply more than 275W for the application needs to connect with fiber transceivers.

Best Performance

The TGSM602-NF48 provides excellent performance as following :

- Line speed switching on all ports, with up to 1.44 terabits per second (Tbps).
- With a four-core CPU and 8 GB of DRAM, make the switch excellent for massively scalable data centers and big data applications.

High Availability

The TGSM602-NF48 enables scaling of the server edge with 10GbE TOR deployments to new heights with high density 48-port solutions delivered in a 1RU design, the high server port density is formed by 40GbE QSFP+ uplinks to deliver the availability of required bandwidth for applications. The key features include :

- 1 + 1 Hot-swappable power supplies (350W)
- 4 + 1 Hot-swappable fan modules
- Reversible airflow (Front to back or Back to front)

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Product Specification

Description	Specification
Physical	<ul style="list-style-type: none"> • 48-port 10GbE SFP+ • 6-port 40GbE QSFP+ • 1 USB Type A Console Port • 1 Micro USB Port • 1 RJ-45 Out-of-Band GbE Management Port
Performance	<ul style="list-style-type: none"> • Switch Fabric Capacity : 1.44Tbps (Full-Duplex) ; 720Gbps (Half-Duplex) • Switch Silicon : Nephos Aries MT3257
CPU Board	<ul style="list-style-type: none"> • Memory : DDR3 8GB • CPU : Intel Rangeley C2538 (4 Cores/2.4GHz) • Flash: NAND Flash 2GB • Storage : BIOS 16MB * 2
Supported Optics	<ul style="list-style-type: none"> • SFP : 1000BASE-SX, 1000BASE-LX, 1000BASE-EX • SFP+ : 10GBASE-SR, 10GBASE-LR, 10GBASE-ER, 10GBASE-AOC (3, 5, 7, 10, 15, 20, 25, 30m lengths), 10GBASE-CR DAC cable (Passive cable up to 5m, Active cable up to 10m) • QSFP+ : 40GBASE-SR4, 40GBASE-LR4, 40GBASE-ER, 40GBASE-CR4 DAC cable (Passive cable up to 5m, Active cable up to 10m), 40GBASE-AOC (up to 100m), 40G to 10G breakout cable
Mechanical	<ul style="list-style-type: none"> • Dimension (WxLxH) : 1RU, 441.5 x 440 x 44mm (17.38 in. x 17.32 in. x 1.73 in.) • Weight : 9 Kg • Power Supply : 1+1 Hot-swappable 350W redundant power supplies • Cooling Fan : 4+1 Hot-swappable fan modules • Airflow : Front to back or Back to front
Environmental	<ul style="list-style-type: none"> • Operating Temperature : 0°C to 45°C • Storage Temperature : -20°C to 75°C • Operating Humidity : 5% to 95% (RH), non-condensing • Storage Humidity : 5% to 95% (RH), non-condensing
Electrical	<ul style="list-style-type: none"> • Power Requirement : 100~240VAC, 50/60Hz
Certification	<ul style="list-style-type: none"> • Safety : UL/CSA 60950; EN60950 • EMC : FCC Part 15 Class A; EN55022 Class A; CCC

About LITE-ON Networking

We are committed to providing customers and market with the professional products and services that drive productivity across applications. With long-term years of operations in Taiwan and China, our products and solution offer significant and diverse values to meet market requirements and advances in networking connectivity technology.