



24-port Fast Ethernet/ 2-port Gigabit Ethernet Switch

LevelOne's new Gigabit Ethernet Switch, GSW-2454T is equipped with 24 10/100Mbps-port Fast Ethernet and 2 10/100/1000 Mbps-port connections. Based on familiar, proven Ethernet technology, GSW-2454 provides 8.8Gbps of back-plane bandwidth to improve network performance and throughput for multi-media, video streaming and real-time broadcast applications.

Each of the RJ-45 ports can auto negotiate for the best possible performance running either in full or half duplex mode. Auto-MDIX is also supported on all ports which allows unlinking to another switch-free cross-over or straight cable selection. Half-and full-duplex flow control prevents packets from being dropped under heavy loading. The GSW-2454 supports "store and forward" mode of operation to ensure that only whole packets with a good CRC are passed to the destination.

GSW-2454 gigabit switch is "Plug-&Play". It does not require software configuration. Users can immediately use any of the features of this product simply by attaching the cables and turning on the power. For instant error detection, the switch is equipped with a full range of LEDs to help you monitor and troubleshoot problems on your network. Offering compact design (441 mm x 161 mm x 44 mm) with a rack-mounted kid, the GSW-2454 can be mounted in an EIA standard size, 19" Rack and placed in a wiring closet with other equipment to support reliable operations in extreme operating environments.



GSW-2454

Key Features

- 24 10/100TX plus 2 10/100/1000 Mbps ports
- Complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX and IEEE 802.3ab Gigabit copper
- Fan Less design
- Store-and-forward switching architecture
- High switch fabric up to 8.8 Gbps
- Non-Blocking full wire speed architecture
- Support IEEE802.1x flow control
 - Pause frame for 10/100/1000Mbps full duplex
 - Back-pressure for 10/100Mbps half duplex
- Plug-and-Play, nothing to configure
- "At-a-glance" LEDs for port and system status monitoring
- 19", 1U rack-mountable size



Technical Specification

- **Standards Compliance**
IEEE 802.3/ IEEE 802.3u
IEEE 802.3ab Gigabit 1000T
IEEE 802.3x Flow Control and Back Pressure
- **Connector**
10/100TX: 24 x RJ-45
1000T: 2 x RJ-45
- **Protocol**
CSMA/CD
- **MAC Address Table**
8K entries with Auto learning function
- **Memory**
Packet Buffer: 2.5Mbits
- **Transfer Rate**
14,800 Packets per second for 10Mbps
148,800 Packets per second for 100Mbps
1,488,000 Packets per second for 1000Mbps
- **Network Cables**
10Base-T: 2-pair UTP/STP Cat.3/4/5, Up to 100 m
100Base-TX: 2-pair UTP/STP Cat. 5, Up to 100 m
1000Base-T: 4-pair UTP/STP Cat.5, Up to 100 m
- **Switch Architecture**
Store-and-Forward
- **LEDs**
Per Device: Power
Per 10/100Base-TX: Link/Activity, Full duplex/Collision
Per 1000Base-T: 100, 1000, Link/Activity, Full duplex/Collision
- **Power Supply**
Internal power supply: 100~240VAC, 50/60Hz
- **Power Consumption**
20 Watts (max)
- **Temperature**
Operating: 0° C ~45° C (32° F ~ 113° F)
- **Humidity**
Operating: 10% ~ 90% (Non-condensing)
- **Dimension**
440mm(W) * 161mm(D) * 44mm(H)
- **EMI and Safety**
FCC Class A, CE

Product Diagram



Ordering Information

- GSW-2454: 24-port Fast Ethernet/ 2-port Gigabit Ethernet Switch