

5/8 Port 10/100Mbps Fast Ethernet Switch



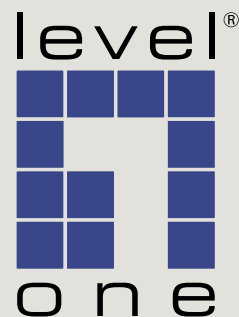
Key Features

- Complies with IEEE802.3 and IEEE802.3u Standards
- Provides 5/8 ports for both 10Mbps and 100Mbps operations
- Total bandwidth of up to 500 Mbps (non-blocking)
- Store and forward scheme to forward packets
- Operates at maximum packet filtering and forwarding rate
- Provides 32Kx32 SSRAM for buffer memory
- Routing table contains 1K entries to store MAC address for attached network nodes.
- Provides frame filtering and forwarding functions for each port, which are capable of filtering and forwarding of all Ethernet packets at wire speed of 14,880 packets per second for the 10Mbps port and 148,800 for the 100Mbps port
- Flow control: IEEE802.3x for full-duplex mode and back pressure for half duplex mode operation
- Automatic local traffic filtering.
- Filtering of erroneous frames (CRC error, fragment, and jabber)

FSW-0504TX
FSW-0804TX
5/8 Port 10/100Mbps
Fast Ethernet Switch

Let the
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5/8 Port 10/100Mbps Fast Ethernet Switch



The LevelOne 5/8 Port 10/100Mbps Fast Ethernet Switch is a 5/8 port unmanaged Fast Ethernet Switch. This Switch has 5/8 dual speed ports compliant to both 10BaseT and 100BaseTX specifications. Auto-negotiation is provided on each port.

The Fast Ethernet Switch allows simultaneous transmission of multiple packets via an internal high-speed data channel. It can partition a network more efficiently than bridges or routers in most environments. The Switch is therefore fast being recognized as one of the most important building blocks for today's networking technology.

The learning function in the Switch stores the address and corresponding port number of each incoming and outgoing packet in a routing table. This information is subsequently used to filter packets whose destination address is on the same segment as the source address. This confines network traffic to its respective domain, reducing the overall load on the network.

The switch scans the destination address from the packet header, searches the routing table provided for the incoming port and forwards the packet only if required. This forwarding makes the switch attractive for connecting servers directly to the network, thereby increasing throughput and availability. However, the switch is most commonly used to segment existing hubs, which nearly always improves overall performance. An Switch can be easily configured in any Ethernet network to significantly boost bandwidth using conventional cabling and adapters.

Product Specifications

Standards Conformance	<ul style="list-style-type: none"> IEEE802.3u 100Base-TX IEEE802.3 10Base-T
Network Interface	<ul style="list-style-type: none"> STP RJ45 port for 10/100Mbps auto-sensing
Supported Cable	<ul style="list-style-type: none"> 10Base-T: UTP category 3 or category 5 cable up to 328ft/100M 100Base-TX: UTP category 5 cable up to 328 ft/100M
Forwarding Method	<ul style="list-style-type: none"> Store and Forward
MAC Address Size	<ul style="list-style-type: none"> 1K for 5 port, 8K for 8 port
Buffer Memory Size	<ul style="list-style-type: none"> 128K for 5 port, 256K for 8 port
Network Data Transfer Rate	<ul style="list-style-type: none"> Ethernet: 10Mbps (half-duplex), 20Mbps (full-duplex) Fast Ethernet: 100Mbps (half-duplex), 200Mbps (full-duplex)
Dimensions	<ul style="list-style-type: none"> TBD
Temperature	<ul style="list-style-type: none"> Operation Temperature: 0°C-40°C Storage Temperature: -20°C-70°C
Humidity	<ul style="list-style-type: none"> Operation Humidity: 10% - 90% RH Storage Humidity: 5% to 90% RH
Status LEDs	<ul style="list-style-type: none"> Power 10/100Mbps Link/Activity Collision/Full-duplex
EMC Compatibility	<ul style="list-style-type: none"> FCC Part 15 Class B, VCCI Class B, CE, CISPER ClassB

Ordering Information

FSW-0504TX	<ul style="list-style-type: none"> 5 Port 10/100Mbps Fast Ethernet Switch
FSW-0804TX	<ul style="list-style-type: none"> 8 Port 10/100Mbps Fast Ethernet Switch