

*Total Solution for Rugged, Mil-Spec & Industrial Computers and Peripherals*

## MROS-3550-24

### Rugged Optical Switch

#### FEATURES

- **Ruggedized Catalyst 3550-24-FX Switch**—24 100FX ports and two GBIC-based Gigabit Ethernet ports
  - 8.8 Gbps switching fabric
  - 4.4 Gbps maximum forwarding bandwidth at Layer 2 and Layer 3
  - 6.6 Mpps forwarding rate for 64-byte packets
  - 2 MB memory architecture shared by all ports
  - 64 MB DRAM and 16 MB Flash memory
  - Configurable up to 8,000 MAC addresses
  - Configurable up to 16,000 unicast routes
  - Configurable up to 2,000 multicast routes.
  - Configurable Maximum Transmission Unit (MTU) of up to 1,546 Bytes for bridging of MPLS tagged frames



#### DESCRIPTION

The MROS-3550-24 is a Ruggedized Cisco Catalyst® 3550 – 24-FX Intelligent Ethernet Switch.

[http://www.cisco.com/en/US/products/hw/switches/ps646/products\\_data\\_sheet09186a00800913d7.html](http://www.cisco.com/en/US/products/hw/switches/ps646/products_data_sheet09186a00800913d7.html) is a line of enterprise-class, stackable, multilayer switches that provide high availability, security and quality of service (QoS) to enhance the operation of the network. With a range of Fast Ethernet and Gigabit Ethernet configurations, the MROS-3550-24 can serve as both a powerful access layer switch for medium enterprise wiring closets and as a backbone switch for small networks. Customers can deploy network-wide intelligent services, such as advanced QoS, rate-limiting, Cisco security access control lists, multicast management, and high-performance IP routing—while maintaining the simplicity of traditional local area network (LAN) switching. Embedded in the MROS-3550-24 is the Cisco Cluster Management Suite (CMS) Software, which allows users to simultaneously configure and troubleshoot multiple Catalyst desktop switches using a standard Web browser. Cisco CMS Software provides new configuration wizards that greatly simplify the implementation of converged networks and intelligent network services.

The built-in Gigabit Ethernet ports accommodate a range of GBIC transceivers, including the Cisco GigaStack® GBIC, 1000BASE-T, 1000BASE-SX, 1000BASE-LX/LH, 1000BASE-ZX and CWDM GBICs. The dual GBIC-based Gigabit Ethernet implementation on the Fast Ethernet configurations provides customers tremendous deployment flexibility—allowing customers to implement one type of stacking and uplink configuration today, while preserving the option to migrate that configuration in the future. High levels of stack resiliency can also be implemented by deploying dual redundant Gigabit Ethernet uplinks, a redundant GigaStack GBIC loopback cable, UplinkFast and CrossStack UplinkFast technologies for high-speed uplink and stack interconnection failover, and Per VLAN Spanning Tree Plus (PVST+) for uplink load balancing. This Gigabit Ethernet flexibility makes the Catalyst 3550 switches an ideal LAN edge complement to the Cisco Catalyst 6500 family of Gigabit Ethernet optimized core LAN switches.

Included with the MROS-3550-24 are the Standard Multilayer Software Image (SMI) or the Enhanced Multilayer Software Image (EMI). The SMI feature set includes advanced QoS, rate-limiting, access control lists (ACLs), and basic static and routed information protocol (RIP) routing functionality. The EMI provides a richer set of enterprise-class features including advanced hardware-based IP unicast and multicast routing and the Web Cache Communication Protocol (WCCP). After initial deployment, the EMI Upgrade Kit gives users the flexibility to upgrade to the EMI.

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#### ENVIRONMENTAL CHARACTERISTICS



<http://www.milper.com>



#### TEMPERATURE

Operating: -20 - +40 °C  
Intermittent: -20 - +55 °C  
Non Operating: -30 - +70 °C

#### HUMIDITY

Operating/Storage MIL-STD-810C Method  
507.1 Proc. I. 5-80%  
RH(non condensation)

#### VIBRATIONS

Hard Mount: MIL-STD-810E, Method  
514.4, Category 1 (Basic  
Transportation), Table  
514.4-1 & Fig. 514.3-25A

#### SHOCK

Operating: MIL-STD-810E, Method 516.4,  
Proc. I, -15g 11ms. Saw Tooth

EMI/RFI MIL-STD-461C, Part 4

DRIP PROOF MIL-STD-810E

#### ALTITUDE

Operating: 10,000 ft.  
Non Operating: 15,000 ft.

#### PHYSICAL CHARACTERISTICS

SIZE 3.5" H x 17" W x 22" D

WEIGHT 10 Kg.

POWER 230V 50/60 Hz

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