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Core Switch Layer 3 8-Port Fiber Optic Port



Overview

MokerLink Store Widely Used: Metal case, desktop/wall-mounting design, industrial grade fan for good heat dissipation, well-suited for various high IGS-632.

Key Takeaways

An 8-port Layer 3 fiber optic switch provides high-speed 10G connectivity with advanced routing, VLAN, and security features, ideal for core network deployment.Key Features

Port Configuration and Speed

• Typically equipped with 8 SFP+ ports, supporting 1G, 2.5G, and 10G speeds depending on the SFP module used .

• Compatible with SR, LR, LRM, ER, ZR, and SFP-to-RJ45 modules, allowing flexible fiber or copper connections .

• Each port can auto-negotiate speed or be manually configured via the management interface . Layer 3 Capabilities

• Supports IPv4 and IPv6 routing, static and dynamic routes, ARP, and loopback interfaces .

• Provides Layer 2 features such as VLANs, ACLs, QoS, jumbo frames, DHCP, multicast, and spanning tree protocols (MSTP/RSTP/STP), .

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• Enables port mirroring, UDLD, and network diagnostics for fault localization and performance monitoring . Management and Security

• Managed via Web UI, CLI, Telnet, SSH, or SNMP, allowing flexible administration .

• Security features include AAA/802.1X authentication, MAC-based access control, DoS protection, dynamic ARP inspection, DHCP snooping, IP source guard, and port security .

• Power and port LED indicators provide real-time status monitoring . Performance and Deployment

• High switching capacity (e.g., 160Gbps) to prevent bottlenecks in core networks .

• Metal housing with fanless or smart fan design ensures silent operation and durability .

• Flexible deployment options: rack-mount or wall-mount, suitable for enterprise or home office environments . Additional Considerations

• SFP/SFP+ modules are sold separately, so ensure compatibility with your fiber type and distance requirements .

• Supports energy-efficient Ethernet (IEEE 802.3az) to reduce power consumption based on link status and cable length .

Use Cases

• Core network aggregation in data centers or enterprise networks.

• High-bandwidth server connections requiring 10G fiber links.

• Long-distance fiber transmission for campus or multi-building networks.

• Secure and manageable network backbone with advanced Layer 3 routing and monitoring. This type of switch is ideal for organizations needing high-speed, reliable, and secure fiber connectivity with full Layer 3 routing capabilities, while maintaining flexibility for future network expansion.

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Article Content

IGS-6325-8T8S Industrial L3 8-Port 10/100/1000T + 8-Port 100/1000X

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Amazon : 8 Port Layer 3 Switch

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