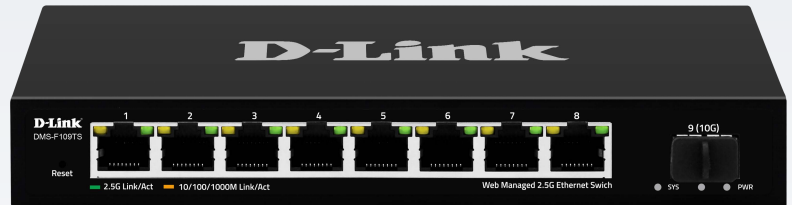# D-Link®
Building Networks for People

Highlights

- 8* 100/1000/2500Mbps RJ45 ports+1* 10G SFP+ optical port
- Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3bz, IEEE 802.3ae, and IEEE 802.3x standards
- RJ45 port supports 100/1000/2500bps adaptive
- Supports automatic port flipping (Auto MDI/MDIX)
- The panel indicator lights will monitor the working status and assist in fault analysis
- Flow control method, IEEE802.3x standard for full duplex and Backpressure standard for half duplex
- Support QoS data priority

DMS-F109TS
8-port 2.5G with 1-Port SFP+ Web Management Desktop Switch

Features

- 8 x 100/1000/2500Mbps RJ45 + 1 x 10G SFP+ Port: High-speed connectivity with flexible options.
- IEEE 802.3 Compliance: Meets multiple standards including 802.3bz and 802.3ae.
- Adaptive RJ45 Ports: Auto-adjusts between 100/1000/2500Mbps.
- Auto MDI/MDIX: Eliminates the need for crossover cables.
- Status LEDs: For real-time monitoring and fault diagnosis.
- Flow Control: IEEE 802.3x for full-duplex, Backpressure for half-duplex.
- QoS Support: Prioritizes critical data traffic.

The D-Link DMS-F109TS is a high-performance network switch designed to meet the connectivity demands of modern business environments. It is equipped with eight versatile RJ45 ports that support speeds of 100/1000/2500Mbps, along with a 10G SFP+ optical port for high-speed fiber-optic connections. This combination provides a robust and flexible networking solution, ensuring efficient data transmission and future-proofing for evolving network requirements.

Compliant with essential IEEE standards such as 802.3, 802.3u, 802.3ab, 802.3bz, 802.3ae, and 802.3x, the DMS-F109TS guarantees seamless integration into various network environments. The switch features automatic port flipping (Auto MDI/MDIX), simplifying installation by eliminating the need for crossover cables. Additionally, real-time status indicators on the panel offer immediate visibility into the switch's operational status, enabling quick identification and resolution of network issues.

The DMS-F109TS supports advanced traffic management with IEEE 802.3x flow control for full-duplex communication and Backpressure for half-duplex modes, enhancing data integrity and network efficiency. Its Quality of Service (QoS) capabilities prioritize critical data traffic, reducing latency and optimizing performance for essential applications. This switch provides a reliable and efficient solution for businesses looking to upgrade or expand their network infrastructure.

Technical Specifications

Hardware Features & Performance

Model		DMS-F109TS
General	Interface	8*2.5G RJ45 port 1*10G SFP+ port
	Port Standard	IEEE802.3 (Ethernet) IEEE802.3u (Fast Ethernet) IEEE802.3ab (Gigabit Ethernet) IEEE 802.3z (Gigabit Ethernet) IEEE 802.3ae (10 Gigabit Ethernet) IEEE802.3x (Flow Control)
Performance	Switching Capacity	60Gbps
	Packet Forwarding Rate	44.64Mpps
	Packet Buffer	8Mbit
	MAC Address Table	4K
	Jumbo Frame	support
	VLAN	VLAN range 1-4094, maximum active VLAN is 31
	Transmission Method	Store and Forward
Environment	Surge Protection	Surge protection: common mode 6KV, differential mode 2KV ; Electrostatic ESD: air 8KV, contact 6KV
	Operating Temperature	0~40℃
	Storage Temperature	-40℃ to 70℃
	Operation Humidity	10%~90%，non condensing
	Storage Humidity	5%~95%，non condensing

Hardware Features & Performance

Physical	Power Supply	AC 100-240V 50/60Hz DC 12V 1A
	Mainboard Power Consumption	11.29W
	Structure Information	Product Dimensions :190*100*28mm Packaging Dimensions : 245*190*60mm Product Net Weight: 0.49KG Product Gross Weight: 0.71KG
	Packing Information	Carton Dimensions : 520*320*400mm Packing Quantity: 20PCS Packing Weight: 15.2KG
	Packing List	Switch 1pcs, ac adapter 1pcs, instruction manual 1pcs，certificate of qualification 1pcs
	Fan Quantity	0
	Installation	desktop
Buttons & Indicator Lights	PWR	On: Powered on Off: Powered off
	1-8	Green led on: 2.5G link connection is normal Yellow led on: 10/100/1000Mbps link connection is normal Off: Link blocked Flashing: Data transmitting
	SYS	On: The system is normal Flashing: System startup in progress
	9th SFP+ port	on: 10G link connection is normal Off: Link blocked Flashing: Data transmitting
	RESET	Long press for 6 seconds to restore factory settings

Software Features

L2 Function	
Port	Port Switch configuration
	Port Speed configuration
	Port Duplex configuration
	Port Flow Control configuration
	EEE
	Jumbo Frame, Up to 12Kbytes
Link Aggregation	Static Group
	Up to 2 groups
	LACP
	Max. 4 members per group
Storm Control	Boardcast suppression
	Unknown Multicast
	Unknown Unicast
Port Mirroring	Support
Port Security	MAC Address Constraints
Port Isolation	Support
Port Rate-limit	support
Loopback Detection	support
VLAN	Access/Trunk/Hybrid
	VLAN range VLAN range 1-4094, maximum active VLAN is 31
MAC Address	Dynamic MAC address
	Static MAC address
Spanning Tree Protocol	STP/RSTP
	Edge Port
Multicast	IGMP Snooping
	Router Port
	Static IGMP Join
	IGMP V1/V2
QoS	Traffic classification, supporting SP and WRR scheduling
	Port Priority
	Supports up to 8 queues per port

Software Features		
Services		
Access Protocol	HTTP	
Diagnostics		
Port Statistics	support	
Equipment Management		
Manager Access	HTTP	
Manager IP	Static Address	
	DHCP Client	
User Management	support	
Firmware Management	Firmware upgrade	
Configuration Management	Upload/Backup Configuration	
Save	support	
Restart	support	
Factory Defaults	support	
Standard Compliance		
IEEE 802.3x flow control and back pressure		
IEEE 802.1D Spanning Tree Protocol		
IEEE 802.1w Rapid Spanning Tree Protocol		
IEEE 802.1Q VLAN tagging		
RFC 768 UDP		
RFC 791 IP		
RFC 792 ICMP		
RFC 2068 HTTP		
RFC 1112 IGMP v1		
RFC 2236 IGMP v2		

Product Application