

# DS116M Series

## 16-port Full Gigabyte Managed Ethernet Switches



- ▶ Up to 12 GE RJ45 ports and 4 GE fiber ports
- ▶ Support ERPS, STP/RSTP/MSTP for network redundancy
- ▶ IGMP Snooping for filtering multicast traffic
- ▶ Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
- ▶ Port Trunking for optimum bandwidth utilization
- ▶ RADIUS, TACACS+, SNMPv3, IEEE 802.1X, HTTPS and SSH to enhance network security
- ▶ QoS (IEEE 802.1p/CoS) and ToS/DiffServ to increase determinism
- ▶ SNMPv1/v2c/v3 for different levels of network management
- ▶ RMON for efficient network monitoring and proactive capability
- ▶ Support port mirroring
- ▶ Bandwidth management prevents unpredictable network status
- ▶ Lock port function for blocking unauthorized access based on MAC address
- ▶ Automatic alarm through e-mail, relay out
- ▶ User friendly UI and command command Line Interface (CLI) for quickly configuring major managed functions



- ▶ All port anti-lighting (6KV)
- ▶ 3KV isolation protection
- ▶ IP30 protection, metal shell
- ▶ PoE/PoE+ option

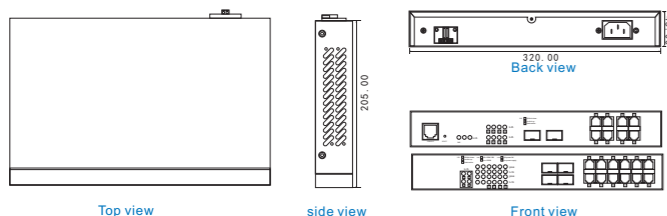
## Overview:

The DS116M series is equipped with up to 12 Gigabit Ethernet ports and 4 fiber optic ports, making it ideal for upgrading an existing network to Gigabit speed or building a new full Gigabit backbone. Gigabit transmission increases bandwidth for higher performance and transfers large amounts of triple-play services across a network quickly. Redundant Ethernet ERPS, RSTP/STP, and MSTP increase system reliability and the availability of your network backbone.

The DS116M series is designed especially for communication demanding applications, such as video and process monitoring, ITS, and process automatic systems, all of which can benefit from a scalable backbone construction.

## Dimensions:

Size: (mm)



## Order information:

Model No	Description	
	10/100/1000BaseT(X)	1000BaseF(X) or SFP
WT-DS-80412G	12	4
WT-DS-80208G	8	2

## Specifications:

<b>Protocols</b>	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, DHCP Option 66/67/82, BootP, TFTP, SNMP, SMTP, RARP, RMON, HTTP, HTTPS, Telnet, SSH, Syslog, EtherNet/IP, PROFINET, Modbus/TCP, SNMP Inform, LLDP, IEEE 1588 PTP V2, IPv6, NTP Server/Client		
<b>MIB</b>	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9		
<b>Flow Control</b>	IEEE 802.3x flow control, back pressure flow control		
<b>Switch Properties</b>	Priority Queues: 4	IGMP Groups: 256	Jumbo Frame Size: 9.6 KB
	Max. Number of Available VLANs: 64	MAC Table size: 8K	
	VLAN ID Range: VID 1 to 4094	Packet Buffer Size: 4 Mbit	
<b>Interface</b>	Fiber Ports: 1000BaseF(X) or SFP slot Rj45 Ports: 10/100/1000BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection Console port: RS-232 (RJ45 connector) LED Indicators: PWR, L/A, SPD, PoE(option)		
<b>Power Requirement</b>	Input Voltage: 110/220 VAC (85 ~ 264 VAC) Input Current: 0.25A (@110VAC/VDC) Connection: 3 bits terminal block Overload Current Protection: Present		
<b>Physical Characteristics</b>	Housing: IP30 protection, Metal case Dimensions: 320mm*205mm*45mm (12.6 x 8.1 x 1.8 in) Installation: Desktop, Wall mounting		Weight: 1900g
<b>Environmental Limits</b>	Operating Temperature: -20 ~ 60 °C ( - 4 ~ 140 °F) Storage Temperature: -40 ~ 85 °C ( - 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)		
<b>Standards</b>	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF (mean time between failures) : 305,000 hrs IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.z for 1000Base-X IEEE 802.1D for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1Q for VLAN Tagging IEEE 802.1p for Class of Service IEEE 802.1X for Authentication IEEE 802.3ad for Port Trunk with LACP IEEE 802.3x for Flow Control		
<b>Warranty</b>	5 years		