Managed Gigabit Ethernet Switch — DR5018GSM

Product Description:

DR5018GSM, a Layer 2+ Managed Gigabit Switches support both IPv4 and IPv6 protocols software Layer 3 static routing capability, and provide 16 10/100/1000Mbps Gigabit Ethernet ports, 2 Gigabit SFP slots.

The DR5018GSM is programmed for advanced switch management functions such as **802.1Q VLAN** and **Q-in-Q VLAN, Multiple Spanning Tree protocol (MSTP), loop** and **BPDU guard, IGMP snooping**, and **MLD snooping**. Also, the **Link Layer Discovery Protocol (LLDP)** is the Layer 2 protocol included to help discover basic information about neighboring devices on the local broadcast domain.

Feature:

◆ Support L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation,IGMP ,Snooping, DHCP Snooping, LLDP, IP Source Guard, ARP inspection, ACLs etc.

◆ Support spanning tree STP (802.1D) and RSTP (802.1W) and MSTP (802.1s).

◆ Support enhanced management through WEB, CLI, TELNET, SSH, SNMP.

◆ Support cable diagnosis

◆ Support dual firmware backup mechanism

◆ Port G.8032 quick ring protocol. Self-recovery time <20ms.

◆ Support IEEE1588 v2, transparent clock(TC)

◆ Support DDM, SFP digital diagnostics monitoring

◆ Support IPV4 and IPV6 software based static routing functions

◆ Support memory and CPU monitoring

Model	DR5018GSM
Copper Ports	16 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports
Fiber Ports	2-100/1000BASE-X SFP interfaces, supports 100/1000Mbps dual mode
Console Ports	1 x RS-232-to-RJ45 serial port (115200, 8, N, 1)
Switch Architecture	Store-and-Forward
Switch Fabric	36Gbps/non-blocking
Throughput	26.78Mpps @64 bytes
Address Table	8K entries
Share Data Buffer	4.0 Mb
Jumbo Frame	9600 Bytes
SDRAM	1Gb
Flash Memory	128Mb
Flow Control	IEEE 802.3x pause frame for full-duplex, Back pressure for half-duplex
Reset Button	> 2 sec: Factory default and reset
Power Supply	100~240V AC, 50/60Hz, 4A (max.)
Power Consumption	12V, 45watts/1122 BTU
LED Indicators	Power: Green Solid on- power work normal, off- power disconnected System: Green Blink-work normally, solid on- soft work abnormal, fast blink- soft upgrade 10/100/1000T RJ45 Interfaces (Port 1 to Port 16): 1000 LNK/ACT (Green),10/100 LNK/ACT (yellow) Blink- port connected with data transmission; Solid on- port connectedwithout data transmission 100/1000Mbps SFP Interfaces (Port 17 to Port 18): Green Blink- port connected with data transmission; Solid on- port connectedwithout data transmission
EMC	Surge Immunity: IEC61000-4-5 ESD Protection: ESD IEC61000-4-2 EFT IEC61000-4-4
Dimension	440x240x44.5mm
Weight	3.2kg
Working Temperature	-10 ℃to 45℃
Storage Temperature	-20℃ to 70 ℃
MTBF	50,000hrs

Certificates	- CE Marking - EN 300 386 V2.2.1:2022 Telecommunication network equipment - Harmonised Standard for ElectroMagnetic Compatibility (EMC) requirements - EN 50121-4:2016+A1:2019 Railway applications. Electromagnetic compatibility Emission and immunity of the signalling and telecommunications apparatus - EN 50155:2021, Railway applications. Rolling stock. Electronic equipment - EN 55011:2016+A2:2021 Industrial, scientific and medical equipment. Radiofrequency disturbance characteristics. Limits and methods of measurement - EN 55022:2010 Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement - EN 60950-1:2005 Information technology equipment – Safety – Part 1: General requirements - EN IEC 61000-3-2:2019, EN 61000-3-3:2013, EN 61000-4-2:2009, EN 61000-4-3:2006+A2:2010, EN 61000-4-4:2012, EN 61000-4-5:2014+A1:2017, EN 61000-4-6:2014, EN 61000-4-8:2010, EN 61000-4-11:2004+A1:2017, EN 61000-6-4:2007 Electromagnetic compatibility (EMC) Testing and measurement techniques - IEC 60068-2-27:2008 Environmental testing-part2-27:test- test ea and guidance: shock - IEC 60068-2-31:2008 Environmental testing-part2-31:Test- test Ec: Rough handling shocks, primarily for equipment-type specimens - IEC 60068-2-64:2008 Environmental testing-part2-64:2008 Test- test Fh: Vibration, broadband random and guidance - IEC 60215:2016 Safety requirements for radio transmitting equipment-General requirements and terminology - IEC 61967-1:2018 Integrated circuits- Measurement of electromagnetic emissions-Part 1: General conditions and definitions - IEC 62151: 2000 Safety of equipment electrically connected to a telecommunication network - Directive 2002/95/EC (RoHS 1), - CFR Part 15, Su voltage 2014/35/EU Directive - UL (UNDERWRITERS LABORATORIES)

Port configuration	Auto-negotiation
	Flow Control
	Port Mirror: TX/RX/BOTH; Many-to-1 monitor
	Traffic statistics
Link Aggregation	Static link aggregation
	LACP
	Algorithm based on Source/Destination MAC
	Algorithm based on Source/Destination IP
MAC Table	Aging Time
	Static MAC address
	Dynamic MAC address management
VLAN	4094 Active VLANs
	4094 VID
	802.1Q Tag VLAN
	Port VLAN Protocol
	VLANMAC VLAN
	Voice VLAN
	802.1ad Q-in-Q tunneling
	Private VLAN (Protected port)GARP/GVRP
ACL	256 ACLs
	L2, L3 e L4
	Time-based ACL
Spanning tree	802.1D Spanning Tree Protocol (STP)
	802.1w Rapid Spanning Tree Protocol (RSTP) 802.1s
	Multiple Spanning Tree Protocol (MSTP)Loop Guard
	Root Guard
	TC-BPDU Guard
	BPDU GuardBPDU
	Filter
Ring Protection	<20ms G.8032 ERPS Ring
Multicast	256 groups
	IGMP v1/v2/v3 Snooping, Fast LeaveMLD
	Snooping
	Multicast VLAN

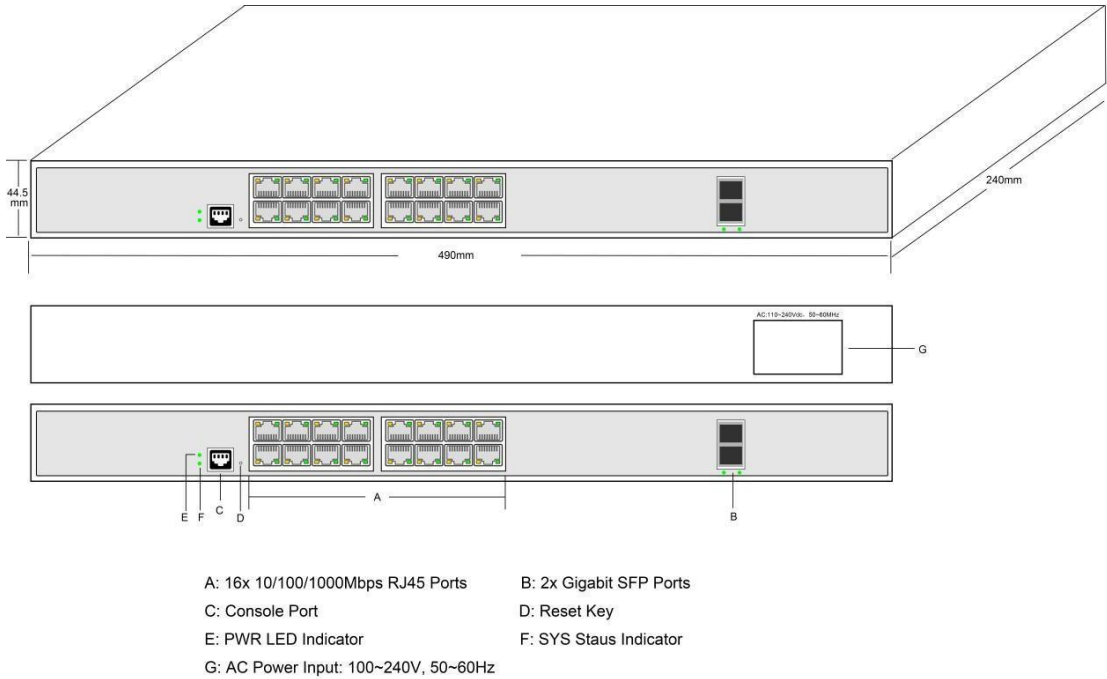|	
QOS	8 mapping IDs to 8 level priority queuesCoS port-based CoS 802.1p-based CoS DSCP-based Scheduling algorithms SP, WRR, SP+WRR Storm Control (Broadcast, Multicast, Unknown Unicast) Bandwidth control per port
Security Features	Port Security MAC address filter ARP Association (Manual, ARP scanning, DHCP snooping)ARP Protection DoS (Denial of Service) Classification of packages based on: End.MAC, IP End, TCP / UDPPorts, Protocol Type; 802.1x Authentication (port-based e MAC-based) TACACS/TACACS+ Authentication RADIUS AuthenticationDHCP Filter Guest VLAN SSLv2/SSLv3/TLSv1 SSHv1/SSHv2 Restriction of WEB access based on: IP Address, And. MAC and Port;Port Isolation Loopback detection
Management	SNMP v1/v2c/v3 with Full Private MIBsRMON 4 groups WEB (HTTP/HTTPS) CLI (Telnet, Console, SSHv1/v2) Firmware upgrade via console/web/TFTPConfiguration Backup/Reload Dual Firmware LLDP
Synchronization, IEEE1588	Support IEEE1588v2 transparent clock
Other Features	DNS Client DHCP Relay

	DHCP Client DHCP
	Snooping DHCP
	Option 82
	NTP/SNTP Client
	UPNP
	UDLD
Maintenance	Cable DiagnosticsPing
	SFP DDM(Digital Diagnostics Monitoring)Thermal
	protection
	System log (Local and Remote)
	Memory and CPU Monitoring

Layer 3 functions

Static Routing	IPv4 Unicast: Static Routing(Software Base)
	IPv6 Unicast: Static Routing(Software Base)
IPV6	IPv6 neighbor discovery (ND)
	Path maximum transmission unit (MTU) discovery Internet
	Control Message Protocol (ICMP) version 6TCPv6/UDPv6
	Ping6
	Telnet(v6)
	Http/Https
	Interface IPV6
	ACL IPV6

Dimension:

A: 16x 10/100/1000Mbps RJ45 Ports   B: 2x Gigabit SFP Ports
C: Console Port   D: Reset Key
E: PWR LED Indicator   F: SYS Staus Indicator
G: AC Power Input: 100~240V, 50~60Hz

Order Information:

Product Model: DR5018GSM

Product Description: L2+ Managed Switch, 16-Port 10/100/1000BASE-T +2-Port 100/1000X SFP, 1x

console port

Order note: SFP module is not included, need to order it separately

Package lists	L2+ Managed Switch, 16-Port 10/100/1000BASE-T +2-Port 100/1000X SFP, 1x console port (DR5018GSM)
	Power Cable
	Mounting Kits
	Warranty Card
	User Guide