

Managed Gigabit Ethernet Switch — DR5026GSM

Product Description:

DR5026GSM, a Layer 2+ Managed Gigabit Switches support both IPv4 and IPv6 protocols and software Layer 3 static routing capability, and provide up to 24 10/100/1000Mbps Gigabit Ethernet ports, 4 Gigabit SFP slots.

The DR5026GSM 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
- ◆ Support 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

Hardware Specification:

Model	DR5026GSM
Copper Ports	22 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports
Combo Ports	2-1000M BASE-T/BASE-X Combo 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	52Gbps/non-blocking
Throughput	38.69Mpps @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	<p>Power: Green</p> <p>Solid on- power work normal, off- power disconnected</p> <p>System: Green</p> <p>Blink-work normally, solid on- soft work abnormal, fast Blink- soft upgrade</p> <p>10/100/1000T RJ45 Interfaces (Port 1 to Port 24): 1000 LNK/ACT (Green), 10/100 LNK/ACT (yellow)</p> <p>Blink- port connected with data transmission; Solid on- port connected without data transmission</p> <p>100/1000Mbps SFP Interfaces (Port 25 to Port 28): Green</p> <p>Blink- port connected with data transmission; Solid on- port connected without data transmission</p>
EMC	<p>Surge Immunity: IEC61000-4-5</p> <p>ESD Protection: ESD IEC61000-4-2</p> <p>EFT IEC61000-4-4</p>
Dimension	440x240x44.5mm
Weight	3.2kg
Working Temperature	-10 °C to 45°C
Storage Temperature	-20°C to 70 °C

MTBF	50,000hrs
Certificates	<ul style="list-style-type: none"> • 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)

Layer 2 functions

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 Leave

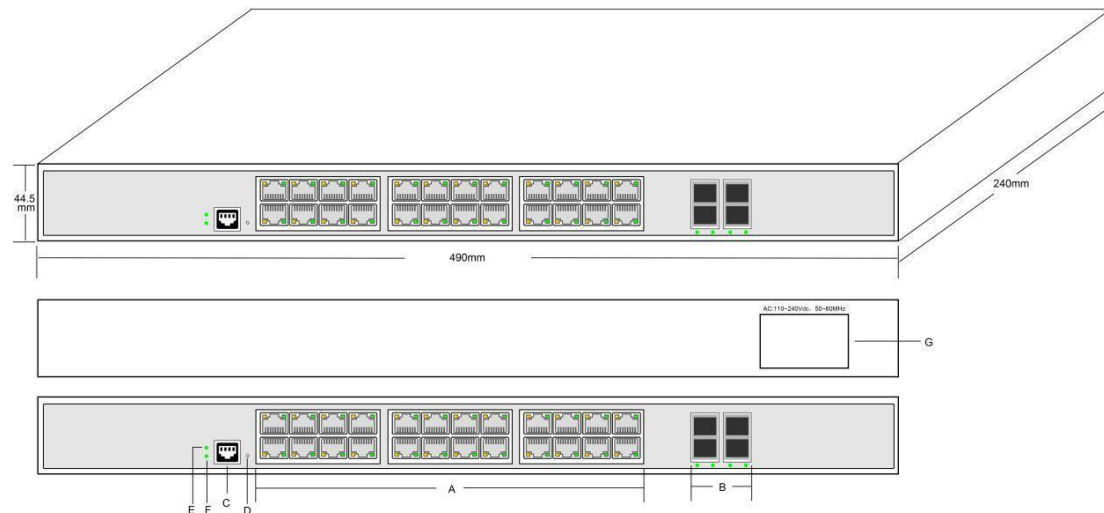
	MLD Snooping Multicast VLAN
QOS	8 mapping IDs to 8 level priority queues CoS port-based CoS 802.1p-based CoS DSCP-based Scheduling algorithms SP, WRR, SP+WRR Storm Control (Broadcast, Multicast, Unknown Unicast) Bandwidth control per port
Security Features	Port Security MAC address filter ARP Association (Manual, ARP scanning, DHCP snooping)ARP Protection DoS (Denial of Service) Classification of packages based on: End.MAC, IP End, TCP / UDP Ports, 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 Diagnostics Ping 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 6 TCPv6/UDPv6 Ping6 Telnet(v6) Http/Https Interface IPV6 ACL IPV6

Dimension:



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|--------------------------------------|-------------------------|
| A: 24x 10/100/1000Mbps RJ45 Ports | B: 4x Gigabit SFP Ports |
| C: Console Port | D: Reset Key |
| E: PWR LED Indicator | F: SYS Status Indicator |
| G: AC Power Input: 100~240V, 50~60Hz | |

Order Information:

Product Model: DR5026GSM

Product Description: L2+ Managed Switch, 24-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, 24-Port 10/100/1000BASE-T +2-Port 100/1000X SFP, 1x console port (DR5026GSM)
	Power Cable
	Mounting Kits
	Warranty Card
	User Guide