



10G Routing Switch Series 5700

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Supports Maximum
48 GE Ports and 8 10GE
SFP+ Uplink Ports



Advanced Hardware
Architecture and
Industry-leading Port
Density



Carrier-Level High
Reliability
Full Layer-3 Functions



Varied Service
Characteristics
Versatile IPv6 Solution
Complete Security
Mechanism

WATCHDOG WD-GS-5700 SERIES IS A NEW GENERATION OF AGGREGATION 10G SWITCHES INTRODUCED BY WATCHDOG. IT IS TARGETED AT THE IP MAN (METROPOLITAN AREA NETWORK), CAMPUS NETWORKS AND ENTERPRISE NETWORKS. IT IS DEVELOPED ON THE BASIS OF HIGH PERFORMANCE HARDWARE. IT SUPPORTS MULTIPLE SERVICES LIKE IPV6, MPLS, VPN AND NETWORK SECURITY BASED ON L2/L3/L4 WIRE-SPEED SWITCHING SERVICE. IT ALSO SUPPORTS NONSTOP UPGRADE, CONTINUOUS FORWARDING, GRACEFUL RESTARTING AND REDUNDANCY PROTECTION. WATCHDOG WD-GS-5700 SERIES HAS 2 MODELS: WD-GS-5720 & WD-GS-5730F. IT SUPPORTS UP TO 24 GIGABIT PORTS AND 6 10GE PORTS.

PRODUCT SPECIFICATIONS?



ITEM		WD-GS-5730	WD-GS-5730F
GE INTERFACE	TX	24	8
	SFP	/	24
10GE INTERFACE	SFP+		6 10GE/GE
CONSOLE			1 RJ45 PORT
BACKPLANE			216 GBPS
FORWARDING RATE		126 MPPS	126 MPPS
PHYSICAL SPECIFICATIONS?			
CHASSIS	DIMENSIONS (WXDXH MM)		440X350X44
PACKAGE	DIMENSIONS (WXDXH MM)		576X448X94
POWER?			
POWER SUPPLY	AC: 100V-240V (HOT-SWAP) 50HZ±10%	75W?	75W?
TOTAL OUTPUT BTU (1000BTU/H = 293W)		255.97	255.97
NOISE@25°C(DBA)			45
MTBF(H)			>100,000
FORWARDING MODE			STORE-FORWARD
FLASH (MB)			32
DRAM (MB)			256
MAC			32K
BUFFER SIZE(MB)			2
JUMBO FRAME			9K
ROUTING TABLE	IPV4		12K
	IPV6		6K
ARP TABLE	IPV4		12K
	IPV6		2K
TOTAL SVI			1K

PRODUCT FEATURES



VLAN

- 4K Active VLAN
- QinQ & Selective QinQ
- GVRP
- Voice-VLAN

Spanning Tree

- 802.1D (STP)
- 802.1W (RSTP) and 802.1S (MSTP) BPD guard
- root guard and loopback guard

Multicast

- PIM-SM, PIM-DM, IGMP v1/v2/v3
- IGMP Snooping, IGMP Fast Leave
- MVR, IGMP filter

IPv4

- Static routing, RIP v1/v2, OSPF, BGP, PBR, ECMP
- BFD for OSPF, BGP

DHCP

- DHCP server/relay/client
- DHCP snooping/option82

MPLS

- LDP protocol, Multi-VRF

QoS

- CAR, HQoS, MAC/IP/TCP/UDP/VLAN/COS/DSCP/TOS based QoS, 802.1P/DSCP priority re-labeling, SP, WRR, and "SP+WRR", Tail-Drop, WRED, flow monitoring and traffic shaping

Environment

- Operating temperature/humidity: 0°C -50°C , 10%-90% non-condensing
- Storage temperature/humidity: 20°C -70°C , 5%-95% non-condensing

IPv6

- ICMPv6, DHCPv6, ACLv6 and IPv6 Telnet
- IPv6 neighbor discovery, Path MTU discovery
- MLD V1/V2, MLD snooping
- IPv6 Static Routing, RIPng, OSPFv3, BGP4+
- Manual tunnel, ISATAP tunnel, 6 to 4 tunnel

Security

- Port isolation, Port security, and "IP+MAC+port" binding, MAC sticky, DAI & IP source guard, PPPoE+
- IEEE 802.1x, Radius and Tacacs+
- L2/L3/L4 ACL flow identification and filtration Anti-attack from DDoS, TCP's SYN Flood, UDP Flood, etc. Broadcast/multicast/unknown unicast storm-control
- MD5, SHA-256, RSA-1024, AES256, etc.

Management

- Console, Telnet, SSH v1/2, HTTP, HTTPS
- SNMP v1/v2/v3, RMON
- TFTP, FTP, SFTP
- NTP, SPAN, RSPAN
- sFlow
- Syslog
- NTP
- LLDP

Accessories

- Power cord, rackmount kits, console cable

Certification

- CE, FCC, ROHS

Reliability

- Static/LACP link aggregation, Interface backup
- BVSS virtual-stacking, ups to 16 units per stack
- EAPS and ERPS
- URPF, LLDP
- ISSU
- VRRP
- 1+1 power backup, Dying gasp
- Hot patch

IEEE Standard

- IEEE 802.1D Media Access Control (MAC) Bridges
- IEEE 802.1Q Virtual Bridged Local Area Networks
- IEEE Std 802.3 CSMA/CD
- IEEE Std 802.3ab 1000BASE-T specification
- IEEE Std 802.3ad Aggregation of Multiple Link Segments
- IEEE Std 802.3ae 10GE WEN/LAN Standard
- IEEE Std 802.3x Full Duplex and flow control
- IEEE Std 802.3z Gigabit Ethernet Standard
- IEEE802.1ax/IEEE802.3ad Link Aggregation
- IEEE 802.1ab Link Layer Discovery Protocol

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ORDERING INFORMATION

Item	Description
S3900 series switch	
WD-GS-5730	Ethernet Routing Switch With 24 GE And 6 10GE PORTS (1 RJ45 Console PORT, 24 GE TX PORTS, 6 10GE/GE SFP+ PORTS; 2 Power Slots With 1 Hot-swap AC220V Power Supply; The Cooling Fan, 1U, Standard 19-Inch Rack-mounted Installation)
WD-GS-5730F	Ethernet Routing Switch With 32 GE And 6 10GE PORTS (1 RJ45 Console PORT, 24 100M/1000M SFP PORTS, 8 GE TX PORTS, 6 10GE/GE SFP+ PORTS; 2 Power Slots With 1 Hot-swap AC220V Power Supply; The Cooling Fan, 1U, Standard 19-Inch Rack-mounted Installation)

OPTICAL MODULES

10GE Optical Modules?

SFP+TX	10GE SFP+-to-RJ45 module
SFP+SX	10GE SFP+ multi-mode (300m, 850nm, LC)
SFP+LX-10	10GE SFP+ single-mode (10Km, 1310nm, LC, DDM)
SFP+LX-20	10GE SFP+ single-mode (20Km, 1310nm, LC, DDM)
SFP+LX-40	10GE SFP+ single-mode (40Km, 1310nm, LC, DDM)
SFP+LX-80	10GE SFP+ single-mode (80Km, 1550nm, LC, DDM)
SFP+LX-SM-1270-10	10GE SFP+ single-mode, single-fiber (10Km, TX1270/RX1330, LC, DDM)
SFP+LX-SM-1330-10	10GE SFP+ single-mode, single-fiber (10Km, TX1330/RX1270, LC, DDM)
SFP+LX-SM-1270-20	10GE SFP+ single-mode, single-fiber (20Km, TX1270/RX1330, LC, DDM)
SFP+LX-SM-1330-20	10GE SFP+ single-mode, single-fiber (20Km, TX1330/RX1270, LC, DDM)
SFP+LX-SM-1270-40	10GE SFP+ single-mode, single-fiber (40Km, TX1270/RX1330, LC, DDM)
SFP+LX-SM-1330-40	10GE SFP+ single-mode, single-fiber (40Km, TX1330/RX1270, LC, DDM)

GE Optical Modules

GSFP-TX-B	GE SFP-to-RJ45 module
GSFP-SX-D	GE SFP multi-mode (500m, 850nm, LC, DDM)
GSFP-LX-10-D	GE SFP single-mode (10Km, 1310nm, LC, DDM)
GSFP-LX-20-D	GE SFP single-mode (40Km, 1310nm, LC, DDM)
GSFP-LX-40-D	GE SFP single-mode (40Km, 1310nm, LC, DDM)
GSFP-ZX-80-D	GE SFP single-mode (80Km, 1550nm, LC, DDM)
GSFP-ZX-120-D	GE SFP single-mode (120Km, 1550nm, LC, DDM)
GSFP-LX-SM1310-10-BIDI	GE SFP single-mode, single fiber (10Km, TX1310/RX1550, LC, DDM)
GSFP-LX-SM1550-10-BIDI	GE SFP single-mode, single fiber (10Km, TX1550/RX1310, LC, DDM)
GSFP-LX-SM1310-20-BIDI	GE SFP single-mode, single fiber (20Km, TX1310/RX1550, LC, DDM)
GSFP-LX-SM1550-20-BIDI	GE SFP single-mode, single fiber (20Km, TX1550/RX1310, LC, DDM)