

WATCHDOG

CMMI
MATURITY LEVEL 5



L3 SERIES SWITCH 10GE

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Product Overview

WD-GS-24G40 & WD-GS-1608C40 lite L3-Series is a next-generation aggregation 10 GE switch introduced by WatchDog. It is targeted at the IP MAN (metropolitan area network), government and enterprise networks, Internet café and disk-less working environment. It is developed on the basis of high performance hardware and a software platform. It supports functions such as powerful ACL, flexible QinQ, 1:1 or N:1 VLAN switching, Ethernet OAM, carrier-level QoS and industry-level 10GE Ether-ring, ensuring this switch series meets application requirements in all kinds of complicated sites. It also supports layer-3 routing protocol. All ports in the switch operate at wire-speed / line-rate. It supports Automatic Negotiation of link speed and duplex to help minimize the configuration & errors. Switch Design is supporting non-blocking architecture. Higher FLASH & DRAM forward all packets in real time, & utilize buffer memory



Product Specification

ITEM	WD-GS-24G40	WD-GS-1608C40	WD-GS-48G60
INTERFACE	24 GE TX 4 10GE/GE SFP+	16 GE SFP 4*10G Combo 8 GE SFP	48GE SFP/TX COMBO 6 10GE/GE SFP+
CONSOLE(RJ45)	1	1	1
BACKPLANE(GBPS)	128	128	216
FORWARDING RATE (MPPS WITH 64 BYTES)	96	96	162
CHASSIS	DIMENSIONS (WxDxH)(MM)	440x300x44	440x280x44
	WEIGHT(KG)(EMPTY)	5.2	4
PACKAGE	DIMENSIONS (WxDxH)(MM)	576X448X94	555X295X88
	WEIGHT(KG)	6.1	5.2
POWER CONSUMPTION	NO-LOAD	<25W	<18W
	FULL-LOAD	<48W (without POE)	<38W
POWER SUPPLY	AC:100V-240V 50-60HZ	45W	45W
	Total output BTU (1000BTU/H=293W)	1535.84 @AC, 2730.38@DC	153.58
Fan number	2	2	2
Power Supply Unit (AC/DC)	2	2	2
MTBF(H)	>200,000	<2,00,000	<200,000
Unicast Route	16K	16K	16K
Flash (MB)	1024	1024	2048
DRAM (MB)	1024	2048	4096
MAC	16K	32K	64K
Buffer size (MB)	1.5	1.5	1.5
Interface VLAN	256	256	256
Routing table 256 for Ipv4 & 256 for IPv6	512	2040	2040
Jumbo frame	9K	9K	9K

Product Specification

VLAN:

4K active IDs, 802.1Q, QinQ & selective QinQ, GVRP, Private VLAN, voice-VLAN, VLAN Reg.

Spanning tree:

- 802.1D (STP) min 64 instances, 802.1W (RSTP), 802.1ag(Ops), 802.1ab, 802.1ad and 802.1S (MSTP)
- BPDU guard, root guard and loopback guard.

Multicast:

IGMP v1/v2/v3, VRF, PIM-SM, PIM-DM, IGMP Snooping, IGMP -1000 Group

IP:

- Static route, RIP, OSPF, BGP, DNS
- IPv4/v6 dual stack

Ipv6:

- ICMPv6, DHCPv6, ACLv6, and IPv6 Telnet
- Ipv6 neighbor discovery, Path MTU discovery
- MLD v1, MLD snooping
- IPv6 static Routing, RIPng, RFC 2740, OSPFv3
- Manual tunnel, ISATAP tunnel, 6 to 4 tunnel

Certificate:

CE, FCC, ROHS

QoS:

PBR, BFD, HQoS, MAC /IP /TCP/ UDP/VLAN/COS /DSCP /TOS based QoS, 802.1P/ DSCP Priority re-labeling, WRED, SRR, SP, WRR and "SP+WRR", Color marker and traffic shaping.

Security:

- PORT isolation, PORT security and "IP+MAC+PORT" binding, MAC Sticky DAI & IP source guard PPPoE+
- EEE 802.1x, AAA radius and BD TACACS+
- L2/L3/L4 ACL flow identification and filtration Anti-Attack from DDoS, TCPs SYN Flood, UDP Flood, etc. IP broadcast/multicast/unknown unicast storm-control
- MD5, SHA-259, RSHA-1024, AES256, etc.

DHCP:

- DHCP server/relay/client
- DHCP snooping/option82
- Link Layer Remote Loop back

Reliability:

- Static/LACP link aggregation, inter-fac backup
- EAPS and ERPS
- ISSU uninterrupted system upgrade
- BVSS, up to 16-unit per stack
- Virtual Stacking 80Gbps Per port
- VRRP, UDLD, LLDP, LBD
- 4K ACEs
- Debugging
- Surge Protection 6KV

Management:

- CLI, Telnet, SSH v1/2, HTTP, HTTP, SNMP v1/v2/v3, RMON
- TFTP, FTP, SFTP, FNF, MIB
- NTP
- ZTP (Zero touch provisioning)
- SPAN, RSPAN
- Dying gasp*

Accessories:

- power cord, rackmount kits, console cable

Environment:

- Operating temperature/humidity: -10°C-50°C, 10%-90%
- Strong temperature/humidity: -20°C-70°C, 5%-90%

Item

Description

Lite-L3 Series Switch

WD-GS-24G40

Ethernet Layer-3 lite switch with 24GE and 4 10G ports (1 Console port, 24GE TX port, 4 10GE/GE SFP + ports 100 to 240 VAC input, 60 HZ, fanless, 1U, standard 19-inch rack-mounted installation)

WD-GS-16O8C40

Ethernet Layer-3 lite switch with 24 GE SFP + 4*10G SFP+ Ports; 100 to 240 VAC input, 60 HZ, the cooling fan, 1U, standard 19 inch rack-mounted installation)

WD-GS-48G60

Ethernet Layer-3 lite switch with 48GE 6 10GE/GE SFP+ Ports; 100 to 240 VAC input, 60 HZ, the cooling fan, 1U, standard 19 inch rack-mounted installation)

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