

L3 Series Switch

Product Overview

WatchDog Core L3 Series is a new generation of full 10GE TOR switches, oriented for high-performance computing, data center and high-end campuses. The Core L3 Series adopts our most advanced hardware architecture designs.Core L3 Series (1U height) supports up to 2.56Tbps switching capacity and 48 10GE ports + 2 40GE ports + 4 100G ports or 72 10GE ports.Core L3 Series supports WVSS, TRILL, SDN and FCoE/FC. By cooperating with Core L3 Series can converge data of 15000+ 10GE servers. Developed on the basis of a software platform, Core L3 Series provides high-performance L2/L3/L4 wire speed switching capacity by integrating services such as IPv6, MPLS VPN, network security, flow analysis, virtualization, with high reliable techniques including continuous forwarding, graceful restarting and loop network protection, all which works efficiency withing the Core L3 Series fabric for guaranteed maximum runtime. Core L3 Series supports the "GreenTouch" architecture and "Smart@CHIP". Its power consumption is lower than 200W. Core L3 Series has 4 models: WD-GS-24G4E4Q, WD-GS-48G4Q, WD-GS-24G4Q28, WD-GS-48G2Q4Q28

Carrier-Level Aggregation Layer-3 Ethernet Switch Innovative virtualize multiple physical devices into one. The performance, reliability and management capabilities of the virtual system combine to outperform that of individual physical devices; Improved Performance: its makes full use of each link in the physical device cluster, which avoids STP blocking on links and protects the original link to the maximum; High Reliability: Based on the advanced distribution mechanism an d efficient cross- physic al link aggregation function, the logic control plane, service control plane and service data plane are separated. Thus, the device can support continuous layer3 routing forwarding, avoiding service interruption as a result of a single point of failure; Easy Management: WVSS realize single IP management, greatly improving the networking efficiency and lowering operating costs.

Product Characteristics

Rich Data Center Services WVSS (WatchDog Virtual Switch System) L3 Series supports WVSS, which can virtualize multiple physical devices into a single logical element. The virtualized system is superior to the independent physical device in performance, reliability, flexibility and management. Doubled Performance: The virtualized system makes the best use of each link in the device and avoids blocking of STP to the links. High-reliability: Based on the advanced distributed processing technique and the efficient function of cross-physical device link aggregation, , the L3-Series provides non-stop layer-3 routing forwarding and avoids single points of failure. Flexibility: The virtual cluster function of the S5800 allows the distance of a cluster system to expand over up to 80KM, breaking the geographic restrictions of traditional cluster techniques. Easy Management: The whole virtual system realizes single IP unified management and simplifies the management of network device and network topology. *Large Layer-2 Network Technique: L3 Series adopts large layer-2 network technique which supports TRILL/SPB protocol. With this technique, the network structure has become simplified and compact, which better enables access for data center, large-scale servers. *Unified Architecture: L3 Series supports FCOE (FC over Ethernet) technique, which solves the problem of discrepancy between LAN network and FC storage



network and integrates computing, data and storage networking. *SDN: L3 Series supports SDN (Software Defined Network), which can realize network virtualization and centralized management

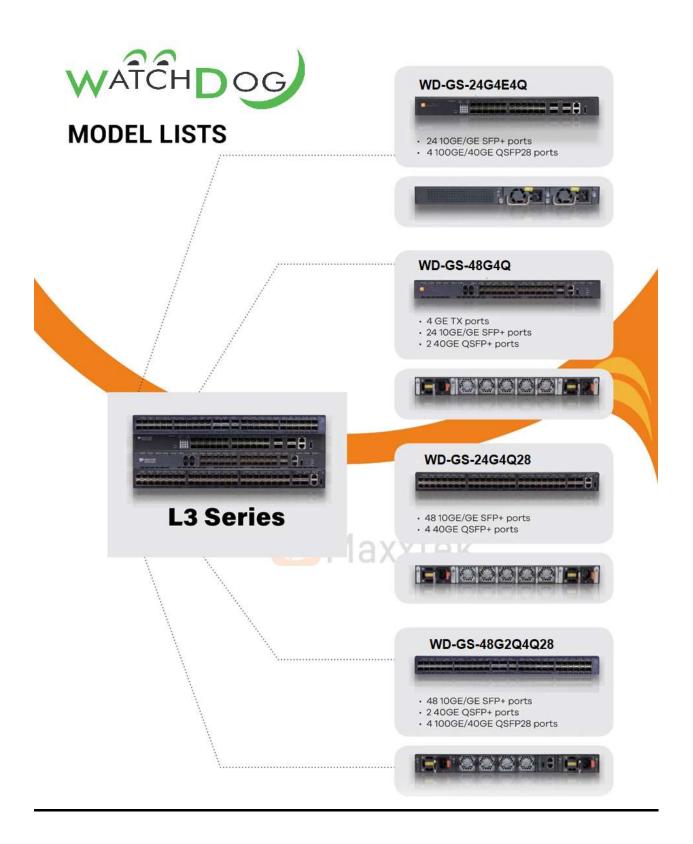
<u>Security+</u>

Equipment-level security: The advanced hardware infrastructure design realizes the level-based packet schedule and packet protection, prevents DoS-/TCP- related SYN Flood, UDP Flood, Broadcast Storm or large traffic attacks, and supports level-based command line protection, endowing different levels of users with different management permissions. Perfect security authentication mechanisms: IEEE 802.1x, Radius and Watchdog Tacacs+ L3 series supports storm/multicast/unicast limits, ensuring normal running conditions of the equipment when deployed in harsh network conditions. L3 series supports perfect ring detection mechanisms, ensuring long- term network performance stability. L3 series supports port isolation within the same VLAN, DHCP-Snooping, and IP + MAC + Port binding

Versatile IPv6 Solution

L3 Series supports the IPv6 protocol suite, IPv6 neighbor discovery, ICMPv6, path MTU discovery, DHCPv6, etc.; L3 Series supports Ping, Traceroute, Telnet, SSH, ACL based on IPv6; L3 Series supports MLD, MLD Snooping, IPv6 static routing, RIPng, OSPFv3 and BGP4+, etc.; Supports IPv6 tunnel: manual tunnel, automatic tunnel, GRE tunnel, 6to4 tunnel, ISATAP; L3 Series supports IPv4 transiting to IPv6: IPv6 manual tunnel, automatic tunnel, 6 to 4 tunnel, ISATAP tunnel. Data Center Level High-reliability L3 Series adopts HPS (Hitless Protection System). The key components of the L3 Series such as the power system and the fan system support redundancy in design. All system modules support hot-swap and seamless switching without need of manual intervention. L3 Series supports redundancy protection mechanisms such as STP/RSTP/MSTP protocol, VRRP protocol, ring network protection, dual uplink active/standby link protection and LACP link aggregation. L3 Series supports ISSU (In-Service Software Upgrade), guaranteeing non-stop forwarding of service data while the system is upgrading. L3 Series supports BFD and realizes fault detection and service recovery in seconds through linking with layer-2 or layer-3 protocol. L3 Series has perfect Ethernet OAM, 802.3ah, 802.1ag and ITU-Y.1731 which can monitor the network operating state in real time and rapidly detect and locate the malfunction. High Reliability (99.999%): The MTTR of the L3 Series is 50ms, satisfying the requirement for reliable delivery of carrier-level service.







PRODUCT SPECIFICATIONS

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Interface		4 GE TX ports, 2410GE/GE SFP+ ports, 240GE QSFP+ ports	48 10GE/GE SFP+ ports, 4 40GE QSFP+ ports	2410GE/GE SFP+ ports, 4100GE/40GE QSFP28 ports	48 10GE/GE SFP+ ports, 2 40GE QSFP+ ports, 4 100GE/40GE QSFP28 ports
Console		1RJ45 consols; 1MGMT	1 RJ45 console, 1 MGMT	1RJ45 console, 1MGMT	1 RJ45 console, 1 MGMT
Backplane		648Gbps	1280Gbps	800Gbps	1920Gbps
Forwarding rate		486Mpps	960Mpps	600 Mpps	1440 Mpps
Chassis	Dimensions (WxDxH)(mm)	442x404x44	442x404x44	440x350x44	442x404x44
	Weight (KG)(empty)	8.5	8.6	73	8.6
Packaga	Dimensions (WxDxH)(mm)	596x468x114	616x488x140	576x448x94	616×488×1**
	Weight(KG)	9.7	9.8	8.3	10
Power	no-load	81.5W	94W	45W	102W
consumption	full-load	92W	131.5W	70W	147W
Power supply (hot-swap)	AC: 100V-240V, 50Hz±10%	2	2	2	2
Power statu	s monitoring	Support	Support	Support	Support
Total output BTU (1000BTU/H=293W)		313.99	448.81	238.91	501.71
Fan number		5	5	4	4
Noise@25°C (dBA)		55	55	.57	57
MTBF(H)		>100,000	>100.000	100.000	>100,000
Forwarding mode		Store-forward	Store-forward	Store-forward	Store-forward
Fiash (MB)		32	32	32	64
DRAM (MB)		2048	2048	1024	512
MAC		128K	128K	32K	64K
Jumbo frame		9K	эк	9K	9K
Routing	IPv4	16K	16K	16K	8K
	IPv6	8K	8K	12K	4K.
ARP table	IPv4	16K	16K	10K	4K
	IPv6	8K	8K	10K	4K
Total SVI		1K	١K	1K	1K



<u>Features</u>

VLAN

4K Active VLAN, QinQ & Selective QinQ, GVRP, Private VLAN

Spanning Tree

802.1D (STP)

 \cdot 802.1W (RSTP) and 802.1S (MSTP)

 \cdot BPDU 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
- \cdot BFD for OSPF, BGP

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 tunne

MPLS

 \cdot 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

Security

Port isolation, Port security, and "IP+MAC+port" binding, MAC

- \cdot stickyDHCP Snooping and option 82, DAI & IP source guard, PPPoE+,
- · IEEE 802.1x, Radius and BDTacacs+ L2/L3/L4 ACL flow identification and filtrationAnti-attack from
- · DDoS, TCP's SYN Flood, UDP Flood, etc.Broadcast/multicast/unknown
- · unicast storm-control
- · MD5, SHA-256, RSA-1024, AES256



Reliability

- · Static/LACP link aggregation,
- · Interface backup
- \cdot WVSS virtual-stacking
- \cdot EAPS and ERPS
- · URPF, LLDPISSU
- · VRRP
- \cdot 1+1 power backup

Management

- · Console, Telnet, SSH v1/2, HTTP
- · HTTPSSNMP v1/v2/v3, RMON
- TFTP, FTP, SFTP
- NTP, SPAN, RSPAN

Environment

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

Certification

CE, FCC, ROHS



Ordering Information

WD-GS-24G4E4Q

Ethernet routing switch with 24 10GE ports, 2 40GE ports and 4 GE ports (1 console port, 1 out-band port, 24 10GE/GE SFP+ ports, 2 40GE QSFP+ ports (each 40GE port can expand to 4 10GE ports); 2 power slots with 2 hot-swap AC220V/ DC power supplies; 5 fan slots, including 5 fans; 1U, 19-inch rack-mounted installation)

WD-GS-48G4Q

Ethernet routing switch with 48 10GE ports, 4 40GE ports (1 console port, 1 out-band port, 1 USB2.0, 48 10GE/GE SFP+ ports, 4 40GE QSFP+ ports (each 40GE port can expand to 4 10GE ports); 2 power slots with 2 hot-swap AC220V/ DC power supplies; 5 fan slots, including 5 fans; 1U, 19-inch rack-mounted installation)

WD-GS-24G4Q28

Ethernet routing switch with 24 10GE ports, 4 100GE ports (1 console port, 1 out-band port, 24 10GE/GE SFP+ ports, 4 100GE/40GE QSFP28 ports (can expand to 4 10GE ports); 2 power slots with 2 hot-swap AC220V/ DC power supplies; 4 fan slots, including 4 fans; 1U, 19- inch rack-mounted installation)

WD-GS-48G2Q4Q28

Ethernet routing switch with 48 10GE ports, 2 40GE ports and 4 100GE ports (1 console port, 1 out-band port, 48 10GE/GE SFP+ ports, 2 40GE QSFP+ ports, 4 100GE (can expand to 4 10GE ports), 2 power slots with 2 hot-swap AC220V/ DC power supplies; 4 fan slots, including 4 fans; 1U, 19-inch rack-mounted installation)



Supported Optics Module

Gigabit SFP single-mode (120Km,1550nm,LC,DDM) Gigabit SFP single-mode, single-core bidirectional (10Km,TX1310/RX1550,LC,DDM) Gigabit SFP single-mode, single-core bidirectional (20Km,TX1310/RX1550,LC,DDM) Gigabit SFP single-mode, single-core bidirectional (20Km,TX1310/RX1550,LC,DDM) Gigabit SFP single-mode, single-core bidirectional (20Km,TX150/RX1310,LC,DDM) Gigabit SFP single-mode, single-core bidirectional (40Km,TX1310/RX1550,LC,DDM) Gigabit SFP single-mode, single-core bidirectional (40Km,TX150/RX1310,LC,DDM) Gigabit SFP single-mode, single-core bidirectional (40Km,TX150/RX1310,LC,DDM) Gigabit SFP single-mode, single-core bidirectional (80Km,TX1490/RX1550,LC,DDM) Gigabit SFP single-mode, single-core bidirectional (80Km,TX1490/RX1550,LC,DDM) Gigabit SFP single-mode, single-core bidirectional (120Km,TX1490/RX1550,LC,DDM) Gigabit SFP single-mode, single-core bidirectional (120Km,TX1490/RX1550,LC,DDM) Gigabit SFP single-mode, single-core bidirectional (120Km,TX150/RX1490,LC,DDM) 40G QSFP+ (PSM4-IR) 2 KMs 40G QSFP+ PSM4-LR Module (10 KMs) QSFP+ 40G (10 KMs) CWDM Dual Fiber QSFP+ 40G (10 KMs) CWDM Dual Fiber QSFP+ 40G ER4 CWDM 1310nm 20km QSFP+ 40G ER4 CWDM 1310nm 40km QSFP28 100G ER4 40 KMs 10G DAC Cable 1 Mtr 40G DAC Cable 1 Mtr 40G DAC Cable 1 Mtr 40G DAC Cable 1 Mtr 100G DAC Cable 1 Mtr MPO to MPO cable (QSFP+ 40G to QSFP+ 40G connection) OM3 8F LSZH Type B 10Meter Breakout Cable (MPO/PC to 4*DLC/PC 8F LSZH 10M B-type Length 1M)	
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QSFP+ 40G ER4 CWDM 1310nm 40kmQSFP28 SR4QSFP28 100G ER4 40 KMs10G DAC Cable 1 Mtr40G DAC Cable 1 Mtr100G DAC Cable 1 Mtr100G DAC Cable 1 MtrMPO to MPO cable (QSFP+ 40G to QSFP+ 40G connection)OM3 8F LSZH Type B 10MeterBreakout Cable	QSFP+ 40G (10 KMs) CWDM Dual Fiber
QSFP28 SR4 QSFP28 100G ER4 40 KMs 10G DAC Cable 1 Mtr 40G DAC Cable 1 Mtr 100G DAC Cable 1 Mtr MPO to MPO cable (QSFP+ 40G to QSFP+ 40G connection) OM3 8F LSZH Type B 10Meter Breakout Cable	QSFP+ 40G LR4 CWDM 1310nm 20km
QSFP28 100G ER4 40 KMs 10G DAC Cable 1 Mtr 40G DAC Cable 1 Mtr 100G DAC Cable 1 Mtr MPO to MPO cable (QSFP+ 40G to QSFP+ 40G connection) OM3 8F LSZH Type B 10Meter Breakout Cable	QSFP+ 40G ER4 CWDM 1310nm 40km
10G DAC Cable 1 Mtr 40G DAC Cable 1 Mtr 100G DAC Cable 1 Mtr MPO to MPO cable (QSFP+ 40G to QSFP+ 40G connection) OM3 8F LSZH Type B 10Meter Breakout Cable	QSFP28 SR4
40G DAC Cable 1 Mtr 100G DAC Cable 1 Mtr MPO to MPO cable (QSFP+ 40G to QSFP+ 40G connection) OM3 8F LSZH Type B 10Meter Breakout Cable	QSFP28 100G ER4 40 KMs
100G DAC Cable 1 Mtr MPO to MPO cable (QSFP+ 40G to QSFP+ 40G connection) OM3 8F LSZH Type B 10Meter Breakout Cable	10G DAC Cable 1 Mtr
MPO to MPO cable (QSFP+ 40G to QSFP+ 40G connection) OM3 8F LSZH Type B 10Meter Breakout Cable	40G DAC Cable 1 Mtr
OM3 8F LSZH Type B 10Meter Breakout Cable	100G DAC Cable 1 Mtr
Breakout Cable	MPO to MPO cable (QSFP+ 40G to QSFP+ 40G connection)
	OM3 8F LSZH Type B 10Meter
(MPO/PC to 4*DLC/PC 8F LSZH 10M B-type Length 1M)	Breakout Cable
	(MPO/PC to 4*DLC/PC 8F LSZH 10M B-type Length 1M)

For More Information info@mywatchdog.in

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