



L2 Advance Lite Series Switches

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Bhermet Ring Supports industry-level EAPS and their protection shift time is less than 50ms Their high reliability is represented by the null packet loss.

Telecom-Level Bhermet Switch Support the telecom-level Bhermet-ring protection protocol with a protection shift time of less than 50ms, STP/RSTP/MSTP, backup of active and standby uplinks and LACP link aggregation to cater to the requirements of high reliability of carriers. Support Bhermet standard 8023u, 8023x, 8023ad, 8021d, 8021p, 8021q, 8021w, 8021ad.

Support system status LED, port dynamic LED Support powerful ACL functions to access and control L2-L7 data based on physical port, VLAN, MAC, IP and protocol port ID, and providing carries flexible and various policy control methods Support IN-Service Software Upgrade (ISSI) to ensure the unremitting data forwarding during system upgrade Supports various L2 multicast functions including IGMP-Snooping, fast-leave and transvlan provides the perfect Bhermet QAM mechanism to monitor the network running status in real time for rapid trouble locating detection.

Flexible and convenient Management and Maintenance Support management modes such as the console port, telnet, ssh etc. Supports the WEB management mode, which is easy and efficient so that it makes installation and debugging convenient Support SNMP and NMS smart network management platform to realize automatic equipment discovery, network topology management, equipment configuration management, performance data statistics and analysis and trouble management Support ISSU (In-Service Software Upgrade). Support TFTP-pattemed file upload/download management.

Carries-Level QoS Policies Support priority re-tagging and complicated flow classification based on VLAN, MAC, source address, destination address, IP or priority to better streamline carrier's services Support provides Flexible bandwidth control policies and supports port-/flow -based flow limit, and ensuring the line speed forwarding of each port to make sure the high quality of video, audio and data services. Support 8 priority queues by each port, Supports multiple queue schedule algorithms such as SP, WRR or "P plus WRR"

Versatile IPv6 Solutions Supports the IPv6 protocol suite, Ipv6 neighbor discovery, IOMPv6, path MTU discovery, etc. Supports ping, traceroute, telnet, SSH ACL and so like on the basis of Ipv6, networks equipment management requirements and service control requirements.

Product Specifications

Item		WD-GS-3928E	WD-GS-3928EF	WD-GS-3928P	WD-GS-3954
Interface		24 GE TX	16 100/1000M SFP	24 GE POE	48 GE TX
		4 10GE/GE SFP+	8 GE SFP/TX combo	4 10GE/GE SFP+	6 10GE/GE SFP +
			4 10GE/GE SFP +		
Console(RJ45)		1	1	1	1
Backplane(Gbps)		128	128	128	216
Forwarding rate(Mpps with 64 bytes)		96	96	96	162
Chassis	Dimensions (WxDxH)(mm)	440x180x44	440x280x44	440x210x44	440x280x44
	Weight(KG)(empty)	2.6	4	3	4.3
Package	Dimensions (WxDxH)(mm)	500x320x80	576x448x94	555x295x88	576x448x94
	Weight(KG)	3.9	5.2	4.1	5.5
Power consumption	no-load	< 22W	< 18W	< 25W	< 25 W
	ion full-load	35W	< 38W	<408W	<40W
Power supply AC: 100V-240V, 50-60Hz		45W	45W	410W	45W
POE power budget		/	/	370W	/
Total output BTU (1000 BTU/H=293W)		153.58	153.58	1392.49	153.58
Fan number		/	2	2	2
Noise@25°C(dBA)		0	45	37.5	45
MTBF(H)		> 50,000	> 50,000	> 50,000	> 50,000
Forwarding mode		Store-forward	Store-forward	Store-forward	Store-forward
Flash (MB)		32	32	32	32
DRAM (MB)		256	256	256	256
MAC		16K	16K	16K	16K
Buffer size(MB)		1.5	1.5	1.5	1.5
Interface vlan		64	64	64	64
Routing table		2040	2040	2040	2040
Jumbo frame		9K	9K	9K	9 K

FEATURES

VLAN

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

Spanning Tree

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

Multicast · IGMP v1/v2/v3, IGMP Snooping, IGMP Fast Leave, MVR, IGMP filter

IP · Static route, RIP, OSPF

- 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, OSPFv3 · Manual tunnel, ISATAP tunnel, 6 to 4 tunnel

Certification

- CE, FCC, ROHS **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 Tacacs+
- 2/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.

DHCP

- DHCP server/relay/client
- DHCP snooping/opti on82

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

Reliability

- Static/LACP link aggregation, Interface backup
- EAPS and ERPS · ISSU uninterrupted system upgrade
- BVSS, ups to 16-units per stack
- VRRP
- UDLD · Hot patch

Management

- Console, Telnet, SSH v1/2, HTTP, HTTPS, SNMP v1/v2/v3, RMON
- TFTP, FTP, SFTP
- NTP · ZTP · SPAN, RSPAN
- Dying gasp*
- Syslog
- NTP
- LLDP

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

Accessories · Power cord, rack mount kits, console cable

Ordering Information: WD-GS-3900 L3-lite series switch

Item	Description
WD-GS-3928E	Ethernet Layer-3 lite switch with 24 GE and 4 10GE ports (1 Console port, 24G E TX ports, 4 10GE/GE SFP+ ports; 100 to 240 VAC input, 60 HZ , fanless, 1U, standard 19- inch rack-mounted installation)
WD-GS-3928EF	Ethernet Layer-3 lite switch with 24 GE and 4 10GE ports (1 Console port, 16 100M/1000M SFP ports, 8 GE SFP/TX combo ports, 4 10GE/GE SFP+ ports; 100 to 240 VAC input, 60 HZ, the cooling fan, 1U, standard 19 inch rack-mounted installation)
WD-GS-3928P	Ethernet Layer-3 lite POE switch with 24 GE ports and 4 10GE ports (1 console port, 24 GE POE TX ports, 4 10GE/GE SFP ports; standard AC220V power supply, 370W POE power, the cooling fan; 1U; standard 19-inch rack-mounted installation)
WD-GS-3954	Ethernet Layer-3 lite switch with 48 GE and 6 10GE/GE SFP+ ports (1 Console port, 48 GE TX ports, 6 10GE/GE SFP+ ports; 100 to 240 VAC input, 60 HZ, the cooling fan, 1U, standard 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)
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Gigabit SFP single-mode, single-core bidirectional (40Km,TX1550/RX1310,LC,DDM)
Gigabit SFP single-mode, single-core bidirectional (80Km,TX1490/RX1550,LC,DDM)
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