



LAN Switches & Power over Ethernet

Scalability, Flexibility, Reliable Solution



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LAN Switch Naming Rule

xGS-42XX-MyNz

Switch Function

OSI Level

Main port number

Switch Category

- GS – Standalone
- XGS – 10G
- MGS – Metro
- IGS – Industrial
- SGS – Stackable
- WGS-Wall-mount
- DCS-Data Center

Switch Function

- 2 – L2 Web Smart
- 3 – L2
- 4 – L2/L4
- 5 – L2+ with static routing
- 6 – L3 with dynamic routing
- 7 – Multi-layer routing

OSI Level

- 2 – L2
- 3 – L3

Main Port Number/N Number

- M/N: Port numbers of this port type
- 2/4/8 – 2/4/8-port
- 24/48 – 24-port/48-port

y: Main Port Type

- T – 10/100/1000BASE-T
- P – PoE
- PL – PoE/large PoE and large power
- UP – 802.3bt PoE++
- S – 100/1000BASE-x SFP slot

z: Port Type

- S – 100/1000BASE-X SFP slot
- C – TP/SFP Combo interface
- X – 10G SFP+
- Y – 25G SFP28
- Q – 40G QSFP+
- QC – 100G QSFP28

Layer 3 IPv6/IPv4 Routing Switches

Chassis Switch			
Model		CS-6306R	CS-6303R
Product Image			
Chassis Slots	Total Number of Slots	6	3
	Max. Management Module	2	2
	Max. Standard Module	4	2
	Management Module Redundancy	●	●
	Number of Power Supply Bays	3	3
Total Port Capacity	Max. 40G QSFP+ Slot	16	8
	Max. 10G SFP+ Slot	64	40
	Max. 10/100/1000BASE-T	192	120
	Max. 1000BASE-SX/LX SFP Slot	192	120
Hardware Specifications	Switch Processing Scheme	Store-and-Forward	Store-and-Forward
	Switching Capacity	2.56Tbps	2Tbps
	MAC Table	32K	Max.32K
	VLAN Table	4K	4K
	ACL Table	2K max.	Ingress Filter: 2.8K, Egress Filter: 512
	Routing Table	IPv4 Protocol: 16K, IPv6 Protocol: 8K	IPv4 Protocol: 16K, IPv6 Protocol: 16K
	Layer 3 Interface	512 max.	256 max.
	Port Queues	8	8
	Jumbo Frame	9K	9kbytes
	Dimensions (W x D x H)	443.5 x 370 x 397 mm	443.5 x 376.2 x 178.2 mm
	Power Input	AC: Input 100~240V, 50~60 Hz	AC: Input 100~240V, 50~60 Hz DC: Input 36-72V, 12.7A max.
IPv4 Layer 3 Functions	IP Routing Protocol	Static Route, RIPv1/v2, OSPFv2, BGP4, Policy-based Routing (PBR), LPM Routing (MD5 authentication)	
	Multicast Routing Protocol	IGMP v1/v2/v3, DVMRP, PIM-DM/SM, PIM-SSM	
	Layer 3 Protocol	VRRP, ARP, ARP Proxy	
IPv6 Layer 3 Functions	IP Routing Protocol	RIPng, OSPFv3, BGP4+	
	Layer 3 Protocol	Configured Tunnels, ISATAP, CIDR	
Layer 2 Functions	Multicast	MLDv1/v2, MLD v1/v2 Snooping	
	Access Control List	Supports Standard and Expanded ACL, IP-based ACL/MAC-based ACL, Time-based ACL, ACL Pool can be used for QoS classification	
	Security	IPv4/IPv6 + MAC + Port Binding, IPv4/IPv6 + Port Binding, ARP Spoofing Prevention, ARP Scanning Prevention, IP Source Guard	
	Authentication	IEEE 802.1x Port-based Network Access Control, AAA Authentication: IPv4/IPv6 over RADIUS	
Management Function	System Configuration	Console, Telnet, SSH, Web Browser, SSL SNMPv1, v2c and v3	
	Management	Supports IPv4/IPv6 HTTP and SSL, the user IP Security inspection for IPv4/IPv6 SNMP, IPv4/IPv6 NTP, IPv4/IPv6 SSH, SNMP v1/v2c/v3, TACACS+, and security IP safety net management function	
Standards Conformance	Compliance	FCC Part 15 Class A, CE	

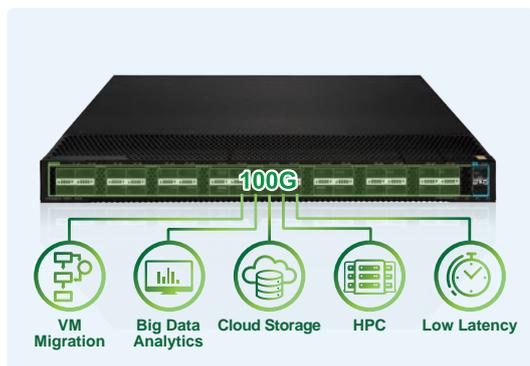
Chassis Switch Modules & Accessories

Available Management Module		Available Power Module					
Model	CS6-MCU	Model	CS6-PWR550-AC	CS6-PWR550-DC			
Product Image		Product Image					
10/100/1000T	1	Input Voltage	100~240V AC, 50/60Hz	36~72V DC			
Console	1 (RJ45)	Power Output	550 watts	550 watts			
Available Standard Modules							
Model	CS6-S48T	CS6-S48S	CS6-S24T24S	CS6-S16X	CS6-S4Q	CS6-S24T8X	CS6-S24S8X
Product Image							
10/100/1000BASE-T	48	-	24	-	-	24	-
1000BASE-X SFP	-	48	24	-	-	-	24
10GBASE-X SFP+	-	-	-	16	-	8	8
40QSFP+	-	-	-	-	4	-	-

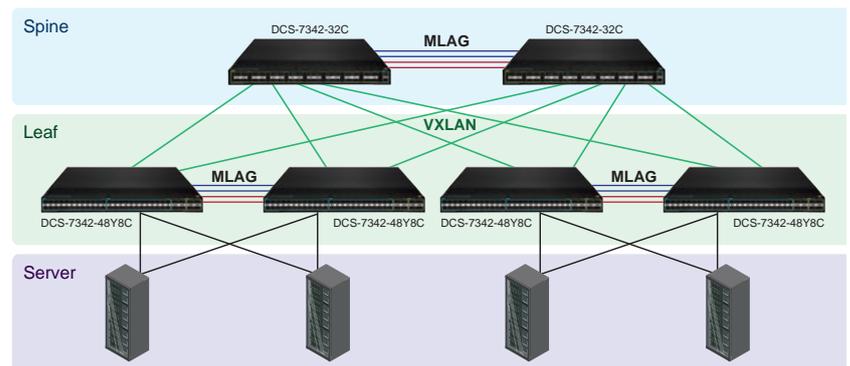
Layer 3 Data Center Switches

Data Center				
Model	DCS-7342-24X6C	DCS-7342-48Y8C	DCS-7342-32C	
Product Image				
Hardware	10G SFP+ Slot	24	–	–
	25G SFP28 Slot	–	48 (Compatible with 10G SFP+)	–
	100G QSFP28 Slot	6 (Compatible with 40G QSFP+)	8 (Compatible with 40G QSFP+)	32 (Compatible with 40G QSFP+)
	Switch Fabric	1.7Tbps	4.0Tbps	6.4Tbps
	MAC Table	128K	128K	128K
	Jumbo Frame	10K	10K	10K
	Memory Buffer	24MB	24MB	24MB
Layer 3 Features	IP Interfaces	4K	4K	4K
	Routing Tables	IPv4: 216K entries; IPv6 108K entries		
	Routing Protocols	IPv4: Static Routing, OSPFv2, IS-IS, BGP; IPv6: Static Routing, RIPng, OSPFv3, BGP4/4+		
Interface	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX, Both
Link Aggregation	Port Trunk	●	●	●
	LACP	●	●	●
	MLAG	●	●	●
VLAN	802.1Q VLAN	● / 4K	● / 4K	● / 4K
	Q-in-Q VLAN	●	●	●
	Private VLAN	●	●	●
Spanning Tree	802.1D	●	●	●
	802.1w	●	●	●
	802.1s	●	●	–
Multicast	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3
	MVR	●	●	●
Quality of Service	802.1p Priority	● / 8 queues	● / 8 queues	● / 8 queues
	Priority Mode	Strict/WRR	Strict/WRR	Strict/WRR
	IP TOS/DSCP	●	●	●
	QoS Mode	Port-CoS, DSCP-CoS, L4 Port-CoS		
	DiffServ Policy QoS	●	●	●
Data Control	Ingress/Egress	● / ●	● / ●	● / ●
Access Control	IP-based	●	●	●
	MAC-based	●	●	●
Security	802.1x Port based Authentication	●	●	●
	MAC Filtering	●	●	●
	Port Security	●	●	●
Management	IPv6/IPv4	●	●	●
	Console	● / RJ45	● / RJ45	● / RJ45
	Telnet	●	●	●
	SNMP	v1, v2c, v3 and trap	v1, v2c, v3 and trap	v1, v2c, v3 and trap
	RMON	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9
	SSH/TLS	● / ●	● / ●	● / ●
	Firmware Upgrade	TFTP	TFTP	TFTP
	Configuration Backup/Recovery	●	●	●
Physical	Dimensions (W x D x H)	440 x 410 x 44 mm	440 x 470 x 44 mm	440 x 470 x 44 mm
	Power Supply	100-240V AC, 50/60Hz	100-240V AC, 50/60Hz	100-240V AC, 50/60Hz
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Low Latency and Real-time Processing



High-Frequency Trading Networks



Layer 3 100G/40G/10G Core Managed Switches

	100G		10G/40G		10G		
Model	XGS-6350-24X4C XGS-6350-24X2C	XGS-6350-48X2Q4C	XGS-6350-12X8TR	XGS-5240-24X2QR	XGS-6320-8X8TR XGS-6320-12X4TR	XGS-6311-12X	XGS-6311-8T4XR



Hardware	10/100/1000BASE-T	-	-	8	-	-	-	-
	1000BASE-X SFP	-	-	-	-	-	-	-
	10G SFP+ Slot	24 (1000X Compatible)	48	12 (1000X Compatible)	24 (1000X Compatible)	8/12 (Compatible with 1G/2.5GBASE-X SFP)	12 (Compatible with 1000X SFP)	4 (Compatible with 1G/2.5GBASE-X SFP)
	10GBASE-T	-	-	-	-	8/4	-	8
	40G QSFP+ Slot	-	2	-	2	-	-	-
	100G QSFP28 Slot	4/2 (Compatible with 40G QSFP+)	4	-	-	-	-	-
	Switch Fabric	1.28Tbps/880Gbps	1.92Tbps	256Gbps	640Gbps	320Gbps	240Gbps	240Gbps
	MAC Table	32K/132K	64K	32K	32K	32K	32K	32K
	Jumbo Frame	9K	9K	9K	9K	10K	12K	12K
Memory Buffer	4MB/4.5MB	4MB	3MB	4MB	4MB	4MB	16MB	
Layer 3 Features	IP Interfaces	128/1K	227	128	64	128 VLAN	4K	1024
	Routing Tables	16K/ IPv4: 16K; IPv6: 8K	8K	128	64	Static: 512 Dynamic: 3072	12K	12K
	Routing Protocols	Static routing, IPv4 RIPv1/v2, OSPFv2, BGP ; IPv6 RIPng, OSPFv3, BGP4+		Static routing, RIP and OSPF	Static routing	RIPv1/v2, OSPFv2/v3, IPv6/IPv4 Static Routing	IPv4 Static Routing, RIPv1/v2, OSPFv2	IPv4/IPv6 Static Routing, RIPv1/v2, RIPng, OSPFv2/v3, BGP4/6
	Accelerated Hardware	●	●	●	●	●	●	●
Interface	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both
Link Aggregation	Port Trunk	●	●	●	●	●	●	●
	LACP	●	●	●	●	●	●	●
VLAN	802.1Q VLAN	● / 4K	● / 4K	● / 4K	● / 4K	● / 4K	● / 4K	● / 4K
	Q-in-Q VLAN	●	●	●	●	●	●	●
	Private VLAN	●	●	●	●	●	●	●
Spanning Tree	802.1D	●	●	●	●	●	●	●
	802.1w	●	●	●	●	●	●	●
	802.1s	●	●	●	●	●	●	●
Rapid Data Recovery	ERPS	●	-	●	-	● / ●	-	-
Multicast	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3 and trap
	MVR	●	●	●	-	●	●	●
Quality of Service	802.1p Priority	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues
	Priority Mode	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR
	IP TOS/DSCP	●	●	●	●	●	●	●
	QoS Mode	Port-CoS, DSCP-CoS, L4 Port-CoS		Port-CoS, DSCP-CoS, L4 Port-CoS		Port-CoS, DSCP-CoS, L4 Port-CoS		
	DiffServ Policy Qos	●	●	●	●	●	●	●
Data Control	Ingress/Egress	● / ●	●	● / ●	● / ●	●	● / ●	● / ●
Access Control List	IP-based	●	● / ●	●	●	● / ●	●	●
	MAC-based	●	●	●	●	●	●	●
Security	802.1x Port-based Authentication	●	●	●	●	●	●	●
	MAC Filtering	●	●	●	●	●	●	●
	Port Security	●	●	●	●	●	●	●
Management	IPv6/IPv4	●	●	●	●	● / ●	●	●
	Console	● / RJ45	● / RJ45	● / RJ45	● / RJ45	● / RJ45	● / RJ45	● / RJ45
	Telnet	●	●	●	●	●	●	●
	Web Management	●	●	●	●	●	●	●
	SNMP	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3 and trap	v1, v2c, v3 and trap
	RMON	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9
	SSH/TLS	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●
	Firmware Upgrade	●	●	●	●	●	●	●
	Configuration Backup/Recovery	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP
	Single IP Management	●	●	●	●	-	-	-
Syslog	●	●	●	●	●	●	●	
Physical	Dimensions (W x D x H)	442.5 x 364 x 44 mm	442 x 404 x 44 mm	440 x 315 x 44 mm	440 x 318 x 44 mm	440 x 200 x 44 mm	330 x 230 x 43.6 mm	441.5 x 207.5 x 44 mm
	Power Supply	100-240V AC, 50/60Hz	100-240V AC, 50/60Hz; Optional AC or DC redundant power module	Dual 100-240V AC, 50/60Hz	100-240V AC, 50/60Hz Dual 36-72V DC	100-240V AC, 50/60Hz 36-60V DC	100-240VAC, 50/60Hz	Dual 100-240V AC, 50/60Hz
Regulatory	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Layer 3 Enterprise Stackable Switches

Gigabit/10G						
Model	XGS3-2424Z	SGS-6341-16S8C4XR	SGS-6341-48T4X	SGS-6341-24T4X	SGS-6341-24P4X	

Product Image



PoE

Hardware	10/100/1000BASE-T	8 combo	8 combo	48	24	24	
	1000BASE-X SFP Slot	24 (100X Compatible)	24 (100X Compatible)	-	-	-	
	10G SFP+ Slot	4 (1000X Compatible)	4 (1000X Compatible)	4 (1000X Compatible)	4 (1000X Compatible)	4 (1000X Compatible)	
	PoE 802.3at Port	-	-	-	-	24	
	PoE Budget	-	-	-	-	370W max.	
	Switch Fabric	128Gbps	128Gbps	176Gbps	128Gbps	128Gbps	
	MAC Table	16K	16K	16K	16K	16K	
	Jumbo Frame	9K	9K	9K	9K	9K	
	Memory Buffer	1.5Mbytes	1.5Mbytes	1.5Mbytes	1.5Mbytes	1.5Mbytes	
Layer 3 Features	IP Interfaces	128	128	128	128	128	
	Routing Tables	13K	1K	1K	1K	1K	
	Routing Protocols	Static routing, IPv4 RIPv1/v2, OSPFv2 BGPv4; IPv6 RIPng, OSPFv3, BGPv4+, PIM-DM, PIM-SM, VRRPv1/v3					
	Accelerated Hardware	●	●	●	●	●	
Interface	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	
Link Aggregation	Port Trunk	●	●	●	●	●	
	LACP	●	●	●	●	●	
VLAN	802.1Q VLAN	● / 4K	● / 4K	● / 4K	● / 4K	● / 4K	
	Q-in-Q VLAN	●	●	●	●	●	
	Private VLAN	●	●	●	●	●	
Spanning Tree	802.1D	●	●	●	●	●	
	802.1w	●	●	●	●	●	
	802.1s	●	●	●	●	●	
Rapid Data Recovery	ERPS	●	●	●	●	●	
Multicast	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	
	MVR	●	●	●	●	●	
Quality of Service	802.1p Priority	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues	
	Priority Mode	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	
	IP TOS/DSCP	●	●	●	●	●	
	QoS Mode	Port-CoS, DSCP-CoS, L4 Port-CoS			Port-CoS, DSCP-CoS, L4 Port-CoS		
	DiffServ Policy QoS	●	●	●	●	●	
Data Control	Ingress/Egress	● / ●	● / ●	● / ●	● / ●	● / ●	
Access Control List	IP-based	●	●	●	●	●	
	MAC-based	●	●	●	●	●	
Security	802.1x Port-based Authentication	●	●	●	●	●	
	MAC Filtering	●	●	●	●	●	
	Port Security	●	●	●	●	●	
Management	IPv6/IPv4	● / ●	● / ●	● / ●	● / ●	● / ●	
	Console	● / RJ45	● / RJ45	● / RJ45	● / RJ45	● / RJ45	
	Telnet	●	●	●	●	●	
	Web Management	●	●	●	●	●	
	SNMP	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	
	RMON	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	
	SSH/TLS	● / ●	● / ●	● / ●	● / ●	● / ●	
	Firmware Upgrade	FTP, TFTP	FTP, TFTP	FTP, TFTP	FTP, TFTP	FTP, TFTP	
	Configuration Backup/Recovery	●	●	●	●	●	
	Single IP Management	●	●	●	●	●	
Syslog	●	●	●	●	●		
Physical	Dimensions (W x D x H)	442 x 240 x 43.6 mm	442 x 240 x 43.6 mm	440 x 240 x 44 mm	440 x 240 x 44 mm	440 x 320 x 44 mm	
	Power Supply	100~240V AC, 50/60Hz 36~75V DC	100~240V AC, 50/60Hz 36~75V DC	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz	
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	

Layer 3 Enterprise Stackable Switches

Gigabit/10G							
Model	SGS-6310-8P4X	SGS-6310-24T4X	SGS-6310-16S8C4XR	SGS-6310-48T6X	SGS-6310-24P4X	SGS-6310-48P6XR	
Product Image							
					PoE	PoE	
Hardware	10/100/1000BASE-T	8	24	8 combo	48	24	48
	1000BASE-X SFP Slot	-	-	24 (100FX compatible)	-	-	-
	10G SFP+ Slot	4 (1000X Compatible)	4 (1000X compatible)	4 (1000X compatible)	6 (1000X compatible)	4 (1000X compatible)	6 (1000X compatible)
	PoE 802.3at Port	8	-	-	-	24	48
	PoE Budget	120W max.	-	-	-	370W max.	370W max. AC 740W max. AC+DC
	Switch Fabric	96Gbps	128Gbps	128Gbps	216Gbps	128Gbps	216Gbps
	MAC Table	16K	16K	16K	32K	16K	32K
	Jumbo Frame	9K	9K	9K	9K	9K	9K
	Memory Buffer	1.5MB	1.5MB	1.5MB	1.5MB	1.5MB	1.5MB
Layer 3 Features	IP Interfaces	64 VLAN	64 VLAN	64 VLAN	64 VLAN	64 VLAN	64 VLAN
	Routing Tables	2K	2K	2K	2K	2K	2K
	Routing Protocols	IPv4/IPv6 Static Routing, OSPFv2/v3, RIPv1/v2, RIPng, VRRPv1/v3					
	Hardware Accelerated	●	●	●	●	●	●
Interface	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both
Link Aggregation	Port Trunk	●	●	●	●	●	●
	LACP	●	●	●	●	●	●
VLAN	802.1Q VLAN	● / 4K	● / 4K	● / 4K	● / 4K	● / 4K	● / 4K
	Q-in-Q VLAN	●	●	●	●	●	●
	Private VLAN	●	●	●	●	●	●
Spanning Tree	802.1D	●	●	●	●	●	●
	802.1w	●	●	●	●	●	●
	802.1s	●	●	●	●	●	●
Rapid Data Recovery	ERPS	●	●	●	●	●	●
Multicast	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3
	MVR	●	●	●	●	●	●
Quality of service	802.1p Priority	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues
	Priority Mode	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR
	IP TOS/DSCP	●	●	●	●	●	●
	QoS Mode	Port-CoS, DSCP-CoS, L4 Port-CoS			Port-CoS, DSCP-CoS, L4 Port-CoS		
	DiffServ Policy Qos	●	●	●	●	●	●
Rate Control	Ingress/Engress	●	●	●	●	●	●
Access Control List	IP-based	●	●	●	●	●	●
	MAC-based	●	●	●	●	●	●
Security	802.1x Port-based Authentication	●	●	●	●	●	●
	MAC Filtering	●	●	●	●	●	●
	Port Security	●	●	●	●	●	●
Management	IPv6/IPv4	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●
	Console	● / RJ45	● / RJ45	● / RJ45	● / RJ45	● / RJ45	● / RJ45
	Telnet	●	●	●	●	●	●
	Web Management	●	●	●	●	●	●
	SNMP	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
	RMON	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9
	SSH/TLS	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●
	Firmware Upgrade	●	●	●	●	●	●
	Configuration Backup/Recovery	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP
	Single IP Management	●, up to 8 units	●, up to 8 units	●, up to 8 units	●, up to 8 units	●, up to 8 units	●, up to 8 units
Syslog	●	●	●	●	●	●	
Physical	Dimensions (W x D x H)	280 x 180 x 44mm	440 x 180 x 44 mm	440 x 280 x 44 mm	440 x 280 x 44 mm	440 x 210 x 44 mm	440 x 300 x 44 mm
	Power Supply	100-240V AC, 50/60Hz	Dual 100-240V AC, 50/60Hz		Dual 100-240V AC, 50/60Hz	100-240V AC, 50/60Hz	100-240V AC, 50/60Hz, 55V DC
Regulator	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	

Layer 3 IPv6/IPV4 Managed Gigabit/10G Switches

Standalone				
Model	GS-6311-24T4X	GS-6311-16S8C4XR	GS-6311-48T6X	
Product Image				
Hardware	10/100BASE-TX	–	–	–
	10/100/1000BASE-T	24	8 (combo)	48
	100/1000BASE-X SFP	–	24	–
	10G SFP+ Slot	4 (Compatible with 1000X SFP)	4 (Compatible with 1000X SFP)	6 (Compatible with 1000X SFP)
	PoE 802.3at Port	–	–	–
	PoE Budget	–	–	–
	Switch Fabric	128Gbps	128Gbps	216Gbps
	MAC Table	16K	16K	32K
	Jumbo Frame	12K	12K	12K
Memory Buffer	12MB	12MB	16MB	
Layer 3 Features	IP Interfaces	1024	1024	1024
	Routing Tables	6K	6K	6K
	Routing Protocols	IPv4 Static Routing, RIPv1/v2, OSPFv2	IPv4 Static Routing, RIPv1/v2, OSPFv2	IPv4 Static Routing, RIPv1/v2, OSPFv2
	Accelerated Hardware	●	●	●
Interface	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX, Both
Link Aggregation	Port Trunk	●	●	●
	LACP	●	●	●
VLAN	802.1Q VLAN	● / 4K	● / 4K	● / 4K
	Q-in-Q VLAN	●	●	●
	Private VLAN	●	●	●
Spanning Tree	802.1D	●	●	●
	802.1w	●	●	●
	802.1s	●	●	●
Rapid Data Recovery	ERPS	●	●	●
Multicast	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3
	MVR	●	●	●
Quality of Service	802.1p Priority	● / 8 queues	● / 8 queues	● / 8 queues
	Priority Mode	Strict/WRR	Strict/WRR	Strict/WRR
	IP TOS/DSCP	●	●	●
	QoS Mode	Port-CoS, DSCP-CoS, L4 Port-CoS	Port-COS, DSCP-COS, L4 Port-COS	Port-COS, DSCP-COS, L4 Port-COS
	DiffServ Policy QoS	●	●	●
Data Control	Ingress/Egress	● / ●	● / ●	● / ●
Access Control List	IP-based	●	●	●
	MAC-based	●	●	●
Security	802.1x Port-based Authentication	●	●	●
	MAC Filtering	●	●	●
	Port Security	●	●	●
Management	IPv6/IPv4	●	●	●
	Console	● / RJ45	● / RJ45	● / RJ45
	Telnet	●	●	●
	Web Management	●	●	●
	SNMP	v1, v2c, v3 and trap	v1, v2c, v3 and trap	v1, v2c, v3 and trap
	RMON	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9
	SSH/TLS	● / ●	● / ●	● / ●
	Firmware Upgrade	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP
	Configuration Backup/ Recovery	●	●	●
	Single IP Management	–	–	–
Syslog	●	●	●	
Physical	Dimensions (W x D x H)	440 x 207 x 44 mm	440 x 260 x 44 mm	440 x 260 x 44 mm
	Power Supply	100-240V AC 50/60Hz	100-240V AC 50/60Hz	100-240V AC 50/60Hz
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Layer 3 Managed Gigabit /10G Switches

Standalone				
Model	GS-6320-46S2C4XR	MGS-6320-8T2X	MGS-6311-10T2X	
Product Image				
Hardware	LCD	-	-	-
	10/100BASE-TX	-	-	-
	10/100/1000BASE-T	2 combo	4 x 10/100/1000 4 x 100/1000/2500	-
	100/1000BASE-X SFP	48	-	-
	2500BASE-T	-	-	8 10/100/1000/2500BASE-T
	10G SFP+ Slot	4 (1000X compatible)	2, backward compatible with 1000X	2 (Compatible with 1000X SFP)
	10GBASE-T	-	-	2 1G/2.5G/5G/10GBASE-T
	PoE 802.3at Port	-	-	-
	PoE Budget	-	-	-
	Switch Fabric	176Gbps	68Gbps	120Gbps
	MAC Table	32K	8K	16K
	Jumbo Frame	10K	10K	12K
	Memory Buffer	64Mbit	4.1Mbits	12MB
Layer 3 Features	IP Interfaces	128 VLAN	32 VLAN	1024 VLAN
	Routing Tables	128	32	6K
	Routing Protocols	IPv4/IPv6 Static Routing, OSPFv2	IPv4/IPv6 Static Routing, OSPFv2/v3, RIPv1/v2	IPv4 Static Routing, RIPv1/v2, OSPFv2
	Accelerated Hardware	●	●	●
Interface	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX, Both
Link Aggregation	Port Trunk	●	●	●
	LACP	●	●	●
VLAN	802.1Q VLAN	● / 4K	● / 4K	● / 4K
	Q-in-Q VLAN	●	●	●
	Private VLAN	●	●	●
Spanning Tree	802.1D	●	●	●
	802.1w	●	●	●
	802.1s	●	●	●
Rapid Data Recovery	ERPS	●	●	●
Multicast	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3
	MVR	●	●	●
Quality of Service	802.1p Priority	● / 8 queues	● / 8 queues	● / 8 queues
	Priority Mode	Strict/WRR	Strict/WRR	Strict/WRR
	IP TOS/DSCP	●	●	●
	QoS Mode	Port-CoS, DSCP-CoS, L4 Port-CoS		
Data Control	DiffServ Policy QoS	●	●	●
Access Control List	Ingress/Egress	● / ●	●	● / ●
	IP-based	●	● / ●	●
Security	MAC-based	●	●	●
	802.1x Port-based Authentication	●	●	●
	MAC Filtering	●	●	●
Management	Port Security	●	●	●
	IPv6/IPv4	● / ●	●	●
	Console	● / RJ45	● / RJ45	● / RJ45
	Telnet	●	●	●
	Web Management	●	●	●
	SNMP	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3 and trap
	RMON	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9
	SSH/TLS	● / ●	● / ●	● / ●
	Firmware Upgrade	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP
	Configuration Backup/Recovery	●	●	●
Physical	Single IP Management	-	-	-
	Syslog	●	●	●
	Dimensions (W x D x H)	440 x 300 x 44 mm	330 x 150 x 44.5 mm	330x230x43.5 mm
Power Supply	100~240V AC, 50/60Hz	100~240V AC	100~240V AC, 50/60Hz	
EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	

Layer 3/Layer 2+ IPv6/IPv4 Metro Fiber Switches

Metro Fiber Switches

Model	MGSD-10080F	MGSW-24160F	MGS-6320-2T6S2X	MGSW-28240F
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		MGSD-10080F	MGSW-24160F	MGS-6320-2T6S2X	MGSW-28240F
Hardware	10/100BASE-TX	-	-	-	-
	10/100/1000BASE-T	2	8	2	4 combo
	1000BASE-X SFP Slot	8 (100FX Compatible)	12 (100FX Compatible)	4 x 2500 2 x 1000 (100FX Compatible)	24 (100FX Compatible)
	10G SFP+ Slot	-	4 (100/1G/2.5Gbps Compatible)	2 (1G/2.5Gbps compatible)	4 (1000X Compatible)
	PoE 802.3at Port	-	-	-	-
	PoE Budget	-	-	-	-
	Switch Fabric	26Gbps	120Gbps	68Gbps	158Gbps
	MAC Table	8K	16K	8K	32K
	Jumbo Frame	9K	12K	10K	10K
	Memory Buffer	4Mbit	12Mbits	4.1Mbits	32Mbit
Layer 3 Features	IP Interfaces	8 VLAN	64 VLAN	32 VLAN	128 VLAN
	Routing Tables	32	32	Static: 32 Dynamic: 1K	Static: 128 Dynamic: 4K
	Routing Protocols	IPv4/IPv6 Static Routing		IPv4/IPv6 Static Routing, OSPFv2/v3, RIPv1/v2	IPv4/IPv6 Static Routing, OSPFv2
	Accelerated Hardware	-	-	●	●
Interface	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both
Link Aggregation	Port Trunk	●	●	●	●
	LACP	●	●	●	●
VLAN	802.1Q VLAN	● / 256	● / 256	● / 4K	● / 4K
	Q-in-Q VLAN	●	●	●	●
	Private VLAN	●	●	●	●
Spanning Tree	802.1D	●	●	●	●
	802.1w	●	●	●	●
	802.1s	●	●	●	●
Rapid Data Recovery	ERPS	●	●	●	●
Multicast	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3
	MVR	●	●	●	●
Quality of Service	802.1p Priority	● / 4 queues	● / 8 queues	● / 8 queues	● / 8 queues
	Priority Mode	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR
	IP TOS/DSCP	●	●	●	●
	QoS Mode	Port-CoS, DSCP-CoS, L4 Port-CoS			
	DiffServ Policy QoS	●	●	●	●
Data Control	Ingress/Egress	● / ●	● / ●	● / ●	● / ●
Access Control List	IP-based	●	●	●	●
	MAC-based	●	●	●	●
Security	802.1x Port-based Authentication	●	●	●	●
	MAC Filtering	●	●	●	●
	Port Security	●	●	●	●
Management	IPv6/IPv4	● / ●	● / ●	● / ●	● / ●
	Console	● / RJ45	● / RJ45	● / RJ45	● / RJ45
	Telnet	●	●	●	●
	Web Management	●	●	●	●
	SNMP	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
	RMON	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9
	SSH/TLS	● / ●	● / -	● / ●	● / ●
	Firmware Upgrade	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP
	Configuration Backup/Recovery	●	●	●	●
	Single IP Management	-	-	-	-
Syslog	●	●	●	●	
Physical	Dimensions (W x D x H)	330 x 155 x 43.5 mm	440 x 200 x 44 mm	330 x 153 x 44 mm	440 x 200 x 44 mm
	Power Supply	100~240V AC, 50/60Hz -36V DC RPS		100~240V AC, 50/60Hz 24-57V DC	100~240V AC, 50/60Hz -36V DC RPS
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Layer 3 IPv6/IPv4 Industrial Managed Gigabit Switches

IPv6/IPv4 Managed Gigabit Switches

Model	IGS-6325-20T4C4X	IGS-6325-20S4C4X	IGS-6325-24P4X	IGS-6325-24P4S	IGS-6325-24UP4X
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Product Image



Hardware	10/100BASE-TX	–	–	–	–	–
	10/100/1000BASE-T	24	4	24	24	24
	100/1000BASE-X SFP	4*	24**	4	4	–
	10G SFP+ Slot	4*	4*	4*	–	4
	PoE 802.3at Port	–	–	24	24	24 (802.3bt)
	PoE Budget	–	–	440W	440W	720W (Single power input) 1,440W (Dual power inputs)
	Switch Fabric	128Gbps	128Gbps	128Gbps	48Gbps	128Gbps
	MAC Table	32K	32K	32K	32K	32K
	Jumbo Frame	10K	10K	10K	10K	10K
	Memory Buffer	32Mbits	32Mbits	32Mbits	32Mbits	32Mbits
Layer 3 Features	IP Interfaces	128 VLAN	128 VLAN	128 VLAN	128 VLAN	128 VLAN
	Routing Tables	Static: 128 Dynamic: 4K	Static: 128 Dynamic: 4K	Static: 128 Dynamic: 4K	Static: 128 Dynamic: 4K	Static: 128 Dynamic: 4K
	Routing Protocols	IPv4/IPv6 static routing OSPFv2 dynamic routing		IPv4/IPv6 static routing OSPFv2 dynamic routing		OSPFv2/v3, RIPv1/v2, IPv6/ IPv4 Static Routing
	Accelerated Hardware	●	●	●	●	●
Interface	Port Mirror	Many to many	Many to many	Many to many	Many to many	Many to many
Link Aggregation	Port Trunk	●	●	●	●	●
	LACP	●	●	●	●	●
VLAN	802.1Q VLAN	●	●	●	●	●
	Q-in-Q VLAN	●	●	●	●	●
	Private VLAN	●	●	●	●	●
Spanning Tree	802.1D	●	●	●	●	●
	802.1w	●	●	●	●	●
	802.1s	●	●	●	●	●
Rapid Data Recovery	ERPS	●	●	●	●	●
Multicast	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3
	MVR	●	●	●	●	●
Quality of Service	802.1p Priority	● / 8 priority	● / 8 priority	● / 8 priority	● / 8 priority	● / 8 priority
	Priority Mode	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR
	IP TOS/DSCP	●	●	●	●	●
	QoS Mode	Port-CoS, DSCP-CoS, L4 Port-CoS		Port-CoS, DSCP-CoS, L4 Port-CoS		
	DiffServ Policy QoS	●	●	●	●	●
Data Control	Ingress/Egress	● / ●	● / ●	● / ●	● / ●	● / ●
Access Control List	IP-based	●	●	●	●	●
	MAC-based	●	●	●	●	●
Security	802.1x Port-based Authentication	●	●	●	●	●
	MAC Filtering	●	●	●	●	●
	Port Security	●	●	●	●	●
Management	IPv6/IPv4	●	●	●	●	●
	Console	● / RJ45	● / RJ45	● / RJ45	● / RJ45	● / RJ45
	Telnet	●	●	●	●	●
	Web Management	●	●	●	●	●
	SNMP	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3 and trap
	RMON	1,2,3,9	1,2,3,9	1,2,3,9	1,2,3,9	1, 2, 3, 9
	SSH/TLS	●	●	●	●	●
	Firmware Upgrade	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP
	Configuration Backup/Recovery	●	●	●	●	●
	Single IP Management	–	–	–	–	–
Syslog	●	●	●	●	●	
Physical	Dimensions (W x D x H)	440 x 200 x 44 mm	440 x 200 x 44 mm	440 x 300 x 44 mm	440 x 300 x 44 mm	440 x 300 x 44 mm
	Power Supply	100–240V AC, 50/60Hz Dual 24–60V DC		Dual 48–56V DC	Dual 48–56V DC	Dual 48–54V DC, 32A max.
	EMI/Safety	FCC Class A, CE EN 61000-6-2	FCC Class A, CE EN 61000-6-2 EN 61000-6-4	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

*Compatible with 2500BASE-X SFP

**10 Ports compatible with 2500BASE-X SFP

Layer 2+ IPv6/IPv4 Managed Gigabit Switches

		Industrial				Standalone	
Model		IGSW-24040T	IGS-5225-16T4S	IGS-R4215-24T4X	IGS-R4215-24P4X	GS-5220-16S8CR	
Product Image							
Hardware	10/100BASE-TX	–	–	–	–	–	
	10/100/1000BASE-T	24	16	24	24	8 combo	
	1000BASE-X SFP Slot	4 combo	4	–	–	24	
	10G SFP+ Slot	–	–	4 (100/1G/2.5Gbps Compatible)			
	PoE Port	–	–	–	24 (802.3at)	–	
	PoE Budget	–	–	–	440W	–	
	Switch Fabric	48Gbps	40Gbps	128Gbps	128Gbps	128Gbps	
	MAC Table	8K	8K	16K	16K	16K	
	Jumbo Frame	9K	9K	12K	12K	12K	
	Memory Buffer	1392KB	1392KB	12Mbits	12Mbits	12Mbits	
Layer 3 Features	IP Interfaces	8	8	64	64	64	
	Routing Tables	32	32	32	32	32	
	Routing Protocols	IPv4/IPv6 Static Routing	IPv4/IPv6 Static Routing	IPv4/IPv6 Static Routing	IPv4/IPv6 Static Routing	IPv4/IP6 Static Routing	
	Accelerated Hardware	–	–	●	●	●	
Interface	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	
Link Aggregation	Port Trunk	●	●	●	●	●	
	LACP	●	●	●	●	●	
VLAN	802.1Q VLAN	● / 4K	● / 4K	● / 256	● / 256	● / 256	
	Q-in-Q VLAN	●	●	●	●	●	
	Private VLAN	●	●	●	●	●	
Spanning Tree	802.1D	●	●	●	●	●	
	802.1w	●	●	●	●	●	
	802.1s	●	●	●	●	●	
Rapid Data Recovery	ERPS	●	●	●	●	●	
Multicast	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	
	MVR	●	●	●	●	●	
Quality of Service	802.1p Priority	● / 4 queues	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues	
	Priority Mode	Strict/WRR	Strict/WRR	Strict/ WRR	Strict/ WRR	Strict/WRR	
	IP TOS/DSCP	●	●	●	●	●	
	QoS Mode	Port-CoS, DSCP-CoS, L4 Port-CoS			Port-CoS, DSCP-CoS, L4 Port-CoS		
	DiffServ Policy QoS	●	●	●	●	●	
Data Control	Ingress/Engress	● / ●	● / ●	● / ●	● / ●	● / ●	
Access Control	IP-based	●	●	●	●	●	
	MAC-based	●	●	●	●	●	
Security	802.1x Port based Authentication	●	●	●	●	●	
	MAC Filtering	●	●	●	●	●	
	Port Security	●	●	●	●	●	
Management	IPv6/IPv4	●	●	●	●	●	
	Console	● / RJ45	● / RJ45	● / RJ45	● / RJ45	● / RJ45	
	Telnet	●	●	●	●	●	
	Web Management	●	●	●	●	●	
	SNMP	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3 and trap	v1, v2c, v3 and trap	v1, v2c, v3 and trap	
	RMON	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	
	SSH/TLS	● / ●	● / ●	● / ●	● / ●	● / ●	
	Firmware Upgrade	●	●	●	●	●	
	Configuration Backup/Recovery	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	
	Single IP Management	–	–	–	–	–	
Syslog	●	●	●	●	●		
Physical	Dimensions (W x D x H)	440 x 200 x 44.5 mm	400 x 200 x 44 mm	444 x 200 x 44.2 mm	444 x 200 x 44.2 mm	440 x 260 x 44 mm	
	Power Supply	100–240V AC, 50/60Hz Dual 36–60V DC		100–240V AC, 50/60Hz Dual 24–60V DC	Dual 48-54V DC	100–240V AC, 50/60Hz	
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	

Layer 2/4 IPv6/IPv4 Managed Gigabit Switches

Standalone								
Model	GS-4210-48T4S	GS-4210-24T2S	GS-4210-16T2S	GS-4210-24T4S	GS-4210-24T4SR	GS-4210-8T2S	GSD-1002M	
Product Image							 PoE PD	
Hardware	10/100BASE-TX	–	–	–	–	–	–	–
	10/100/1000BASE-T	48	24	16	24	24	8	8
	100/1000BASE-X SFP	4	2.5G	2.5G	2.5G	2.5G	2	2
	10G SFP+	–	–	–	–	–	–	–
	PoE 802.3at Port	–	–	–	–	–	–	–
	PoE Budget	–	–	–	–	–	–	–
	Switch Fabric	104Gbps	58Gbps	42Gbps	68Gbps	68Gbps	20Gbps	20Gbps
	MAC Table	16K	16K	16K	16K	16K	8K	8K
	Jumbo Frame	9K	12K	12K	12K	12K	9K	9K
Memory Buffer	4.1Mbit	4.1Mbit	4.1Mbit	4.1Mbit	4.1Mbit	4Mbit	4Mbit	
Interface	Port Configuration	●	●	●	●	●	●	●
	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both
Link Aggregation	Port Trunk	●	●	●	●	●	●	●
	LACP	●	●	●	●	●	●	●
VLAN	Port-based	–	–	–	–	–	–	–
	802.1Q VLAN	● / 256	● / 256	● / 256	● / 256	● / 256	● / 256	● / 256
	Q-in-Q VLAN	●	●	●	●	●	●	●
	Private VLAN	●	●	●	●	●	●	●
Spanning Tree	802.1D	●	●	●	●	●	●	●
	802.1w	●	●	●	●	●	●	●
	802.1s	●	●	●	●	●	●	●
Rapid Data Recovery	ERPS	●	●	●	●	●	●	●
Multicast	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3
	MVR	–	●	●	–	–	●	●
Quality of Service	802.1p Priority	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues			
	Priority Mode	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR
	IP TOS/DSCP	●	●	●	●	●	●	●
	QoS Mode	Port-CoS, DSCP-CoS, L4 Port-CoS		Port-CoS, DSCP-CoS, L4 Port-CoS		Port-CoS, DSCP-CoS, L4 Port-CoS		
	DiffServ Policy QoS	–	–	–	–	–	–	–
Data Control	Ingress/Egress	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●
Access Control List	IP-based	●	●	●	●	●	●	●
	MAC-based	●	●	●	●	●	●	●
Security	802.1x Port-based Authentication	●	●	●	●	●	●	●
	MAC Binding	●	●	●	●	●	●	●
	MAC Filtering	●	●	●	●	●	●	●
	Port Security	●	●	●	●	●	●	●
Management	IPv6/IPv4	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●
	Console	● / RJ45	● / RJ45	● / RJ45	●	●	●	–
	Telnet	●	●	●	●	●	●	●
	Web Management	●	●	●	●	●	●	●
	SNMP	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
	RMON	1,2,3,9	1, 2, 3, 9	1,2,3,9	1,2,3,9	1,2,3,9	1,2,3,9	1,2,3,9
	SSH/TLS	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●
	Firmware Upgrade	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP
	Configuration Backup/Recovery	●	●	●	●	●	●	●
	Single IP Management	–	–	–	–	–	–	–
	Syslog	●	●	●	●	●	●	●
Physical	Dimensions (W x D x H)	440 x 300 x 44 mm	440 x 207 x 44 mm		441 x 207 x 44 mm		280 x 180 x 44 mm	191 x 85.7 x 26.3 mm
	Power Supply	100–240V AC, 50/60Hz	100–240V AC, 50/60Hz			100–240V AC, 50/60Hz, DC 36-72V	100–240V AC, 50/60Hz	12V DC, 1A
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE			

Next-generation Smart Managed Gigabit Switches



Web Smart Ethernet Switch

Model	GS-2210-8T2S	GS-2210-16T2S	GS-2210-24T2S	GS-2210-8P2S	GS-2210-16P2S	GS-2210-24P2S
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Product Image



Hardware Specifications							
Hardware	10/100/1000BASE-T	8	16	24	8	16	24
	1000BASE-SX/LX	2	2	2	2	2	2
	PoE 802.3at Port	–	–	–	8 x 32W	16 x 32W	24 x 32W
	PoE Budget	–	–	–	120W	240W	260W
	Switch Fabric	20Gbps	36Gbps	52Gbps	20Gbps	36Gbps	52Gbps
	Throughput	14.88Mpps	26.78Mpps	38.68Mpps	14.88Mpps	26.78Mpps	38.68Mpps
	Shared Data Buffer	4.1Mbits	4.1Mbits	4.1Mbits	4.1Mbits	4.1Mbits	4.1Mbits
	Jumbo Frame	10K	10K	10K	10K	10K	10K
	MAC Address Table	8K	8K	8K	8K	8K	8K
Software Specifications							
Monitoring	Cable Diagnostics	●	●	●	●	●	●
	Loop Guard	●	●	●	●	●	●
Port Settings	Flow Control	●	●	●	●	●	●
	Port Mirror	●	●	●	●	●	●
	Port Isolation	●	●	●	●	●	●
Link Aggregation	Port Trunk	●	●	●	●	●	●
VLAN	Port VLAN	●	●	●	●	●	●
PoE Settings	PoE Limit Setting	–	–	–	●	●	●
	PoE Priority	–	–	–	●	●	●
	PD Alive Check	–	–	–	●	●	●
Quality of Services	802.1p Priority	●	●	●	●	●	●
	Priority Mode	●	●	●	●	●	●
	CoS/DSCP	●	●	●	●	●	●
	DiffDerv Policy QoS	●	●	●	●	●	●
Multicast	IGMP Snooping	●	●	●	●	●	●
	DHCP Snooping	●	●	●	●	●	●
Management	Interfaces	Web HTTP, telnet, PLANET NMS controller, PLANET Smart Discovery					
	ONVIF	●	●	●	●	●	●
Physical	Dimensions (W x D x H)	220 x 150 x 44 mm	440 x 207 x 44 mm	440 x 207 x 44 mm	220 x 150 x 44 mm	440 x 207 x 44 mm	440 x 207 x 44 mm
	Power Requirements	100–240V AC, 50/60Hz	100–240V AC, 50/60Hz	100–240V AC, 50/60Hz	100–240V AC, 50/60Hz	100–240V AC, 50/60Hz	100–240V AC, 50/60Hz
	Operating Temperatures	0–50 degree C	0–50 degree C	0–50 degree C	0–50 degree C	0–50 degree C	0–50 degree C
Regulatory	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

19-inch Rack-mountable Switches

Gigabit				
Model		GSW-1601	GSW-2401	MGS-910X
Product Image				
Hardware	10/100BASE-TX	–	–	–
	10/100/1000BASE-T	16	24	–
	100/1000/2500BASE-T	–	–	8
	10GBASE-X SFP+	–	–	1
	Switch Fabric	32Gbps	48Gbps	60Gbps
	MAC Table	8K	8K	4K
	Jumbo Frame	9K	9K	12K
	Memory Buffer	built-in	built-in	Built-in
Interface	Auto-negotiation	●	●	●
Physical	Dimensions (W x D x H)	440 x 180 x 44 mm	440 x 180 x 44 mm	280 x 180 x 44 mm
	Power Supply	100–240V AC, Universal Power Supply		
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE
	Material	Metal	Metal	Metal
	Rack-mountable	●	●	●

SOHO/Home Switches

Fast Ethernet				Gigabit									
Model		SW-504/FSD-503	FSD-803	Model		GSD-503	GSD-803						
Product Image				Product Image									
Hardware	10/100/BASE-TX	5	8	Hardware	10/100/1000BASE-T	5	8						
	10/100/1000BASE-T	–	–		Hardware	1000BASE-X SFP	–	–					
	PoE 802.3af Port	–	–			Hardware	PoE 802.3af Port	–	–				
	PoE Budget	–	–				Hardware	PoE Budget	–	–			
	Switch Fabric	1Gbps	1.6Gbps					Hardware	Switch Fabric	10Gbps	16Gbps		
	MAC Table	1K/2K	1K						Hardware	MAC Table	2K	8K	
	Jumbo Frame	–	–							Hardware	Jumbo Frame	15K	15K
	Memory Buffer	384Kb/448Kb	448Kb								Hardware	Memory Buffer	1Mb
Interface	Auto-negotiation	●	Interface	Auto-negotiation								●	●
Interface	802.3x Flow Control	●		Interface	802.3x Flow Control							●	●
Physical	Dimensions (W x D x H)	168 x 100 x 29 mm/ 100 x 64 x 24 mm			140 x 67 x 26 mm	Physical						Dimensions (W x D x H)	140 x 67 x 26 mm
	Power Supply	5V DC, 1000mA			5V DC, 1000mA		Physical					Power Supply	5V DC, 1000mA
	EMI/Safety	FCC Class A, CE			FCC Class A, CE			Physical				EMI/Safety	FCC Class A, CE
	Material	Plastic/Metal			Metal				Physical			Material	Metal
	Rack-mountable	–			–					Physical		Rack-mountable	–

Gigabit			
Model		GSD-805	WGS-803
Product Image			
Hardware	10/100/1000BASE-T	8	8
	1000BASE-X SFP	–	–
	PoE 802.3af Port	–	–
	PoE Budget	–	–
	Switch Fabric	16Gbps	16Gbps
	MAC Table	8K	8K
	Jumbo Frame	9K	9K
	Memory Buffer	1Mb	1Mb
Interface	Auto-negotiation	●	●
Interface	802.3x Flow Control	●	●
Physical	Dimensions (W x D x H)	168 x 93 x 32 mm	148 x 25 x 134 mm
	Power Supply	Internal Power	12V–48V DC
	EMI/Safety	FCC Class A, CE	FCC Class A, CE
	Material	Metal	Metal
	Rack-mountable	–	–

Power over Ethernet

Layer 3 Managed Gigabit 802.3bt PoE++ Switches

PoE++					
Model	XGS-6320-8UP4X	GS-6320-24UP2T2XV	GS-6322-24P4X	GS-6322-48UP4X	
Product Image					
		Touch LCD			
10/100BASE-TX	LCD	-	2.4" Color TFT Touch screen	-	-
	10/100/1000 BASE-T	-	24	24	48
	10G SFP+ Slot	4, backward compatible with 1G/2.5G	2, backward compatible with 1G/2.5G/5G	2, backward compatible with 1000X	4, backward compatible with 1G/2.5G
	10G BASE-T	8 100/1000/2.5G/5G/10GBASE-T	2	2	-
	PoE 802.3bt Port	8 x 95W	24 x 95W	24 x 95W	48 x 95W
	PoE Budget	420W	600W	2280W	3200W
	Switch Fabric	40Gbps	128Gbps	128Gbps	176Gbps
	MAC Table	32K	32K	32K	32K
	Jumbo Frame	10K	10K	10K	10K
	Memory Buffer	32Mbits	32Mbit	32Mbit	32Mbit
Layer 3 Features	IP Interfaces	128 VLAN	128 VLAN	128 VLAN	128 VLAN
	Routing Tables	Static: 128 Dynamic: 4K	Static: 128 Dynamic: 4K	Static: 128 Dynamic: 4K	Static: 128 Dynamic: 4K
	Routing Protocols	IPv4/IPv6 Static Routing, RIPv1/v2, OSPFv2/v3		IPv4/IPv6 Static Routing, RIPv1/v2, OSPFv2/v3	
	Accelerated Hardware	●	●	●	●
Interface	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both
Link Aggregation	Port Trunk	●	●	●	●
	LACP	●	●	●	●
VLAN	802.1Q VLAN	● / 4K	● / 4K	● / 4K	● / 4K
	Q-in-Q VLAN	●	●	●	●
	Private VLAN	●	●	●	●
Spanning Tree	802.1D	●	●	●	●
	802.1w	●	●	●	●
	802.1s	●	●	●	●
Rapid Data Recovery	ERPS	●	●	●	●
Multicast	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3
	MVR	●	●	●	●
Quality of Service	802.1p Priority	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues
	Priority Mode	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR
	IP TOS/DSCP	●	●	●	●
	QoS Mode	Port-CoS, DSCP-CoS, L4 Port-CoS		Port-CoS, DSCP-CoS, L4 Port-CoS	
	DiffServ Policy Qos	●	●	●	●
Data Control	Ingress/Egress	● / ●	● / ●	● / ●	● / ●
Access Control List	IP-based	●	●	●	●
	MAC-based	●	●	●	●
Security	802.1x Port-based Authentication	●	●	●	●
	MAC Filtering	●	●	●	●
	Port Security	●	●	●	●
Management	IPv6/IPv4	● / ●	● / ●	● / ●	● / ●
	Console	● / RJ45	● / RJ45	● / RJ45	● / RJ45
	Telnet	●	●	●	●
	Web Management	●	●	●	●
	SNMP	v1, v2c, v3 and trap	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
	RMON	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9
	SSH/TLS	●	● / ●	● / ●	● / ●
	Firmware Upgrade	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP
	Configuration Backup/Recovery	●	●	●	●
	Syslog	●	●	●	●
Physical	Dimensions (W x D x H)	440 x 300 x 44 mm	440 x 300 x 56 mm	440 x 300 x 44 mm	444 x 331 x 44 mm
	Power Supply	100-240V AC, 50/60Hz	100-240V AC, 50/60Hz 36-60V DC (R model only)	2 CRPS slots 920W/1200W/2000W	2 CRPS slots 920W/1200W/2000W
Regulatory	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Layer 3 Managed Gigabit 802.3bt PoE++ Switches

PoE++				
Model	MGS-6311-24UPL6X	MGS-6311-8UP4X	GS-6311-24HP4X	

Product Image



10/100BASE-TX	LCD	–	–	–
	10/100/1000 BASE-T	24 x 100/1000/2500	8 x 100/1000/2500	24
	1000BASE-X SFP	–	–	–
	10G SFP+ Slot	6 (Compatible with 1000X SFP)	4, backward compatible with 1000X	4 (Compatible with 1000X SFP)
	10G BASE-T	–	–	–
	PoE 802.3bt Port	24 x 95W	8 x 95W	8 x 90W 16 x 32W
	PoE Budget	720W	240W	480W
	Switch Fabric	240Gbps	120Gbps	128Gbps
	MAC Table	32K	16K	16K
	Jumbo Frame	12K	12K	12K
Memory Buffer	16Mbits	12Mbits	12MB	
Layer 3 Features	IP Interfaces	32 VLAN	32 VLAN	32 VLAN
	Routing Tables	Static: 32 Dynamic: 1K	Static: 32 Dynamic: 1K	Static: 32 Dynamic: 1K
	Routing Protocols	IPv4/IPv6 Static Routing, RIPv1/v2, RIPng, OSPFv2/v3	IPv4/IPv6 Static Routing, RIPv1/v2, RIPng, OSPFv2/v3	IPv4/IPv6 Static Routing, RIPv1/v2, RIPng, OSPFv2/v3
	Accelerated Hardware	●	●	●
Interface	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX, Both
Link Aggregation	Port Trunk	●	●	●
	LACP	●	●	●
VLAN	802.1Q VLAN	● / 4K	● / 4K	● / 4K
	Q-in-Q VLAN	●	●	●
	Private VLAN	●	●	●
Spanning Tree	802.1D	●	●	●
	802.1w	●	●	●
	802.1s	●	●	●
Rapid Data Recovery	ERPS	●	●	●
Multicast	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3
	MVR	●	●	●
Quality of Service	802.1p Priority	● / 8 queues	● / 8 queues	● / 8 queues
	Priority Mode	Strict/WRR	Strict/WRR	Strict/WRR
	IP TOS/DSCP	●	●	●
	QoS Mode	Port-CoS, DSCP-CoS, L4 Port-CoS		Port-CoS, DSCP-CoS, L4 Port-CoS
	DiffServ Policy Qos	●	●	●
Data Control	Ingress/Egress	● / ●	● / ●	●
Access Control List	IP-based	●	●	● / ●
	MAC-based	●	●	●
Security	802.1x Port-based Authentication	●	●	●
	MAC Filtering	●	●	●
	Port Security	●	●	●
Management	IPv6/IPv4	●	●	●
	Console	● / RJ45	● / RJ45	● / RJ45
	Telnet	●	●	●
	Web Management	●	●	●
	SNMP	v1, v2c, v3 and trap	v1, v2c, v3	v1, v2c, v3 and trap
	RMON	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9
	SSH/TLS	● / ●	● / ●	● / ●
	Firmware Upgrade	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP
	Configuration Backup/Recovery	●	●	●
	Single IP Management	–	–	–
Syslog	●	●	●	
Physical	Dimensions (W x D x H)	440 x 330 x 44 mm	330 x 200 x 44.5 mm	440 x 207 x 44 mm
	Power Supply	100–240V AC, 50/60Hz		100–240V AC, 50/60Hz
Regulatory	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Layer 2/4 Gigabit 802.3bt PoE++ Switches

Managed Switches							
Model	GS-4210-8UP2S	GS-4210-8UP2X	GS-4210-16UP8T4X	GS-4210-24UP4X	AVS-4210-8HP2X	AVS-4210-24HP4X	
Product Image							
Hardware	10/100BASE-TX	–	–	–	–	–	–
	10/100/1000BASE-T	8	8	24	24	20	24
	1000BASE-SX/LX	2 SFP	–	–	–	4 SFP	–
	10GBASE-SR/LR	–	4 SFP+ (Compatible with 1000X SFP)	4 SFP+ (Compatible with 1000X SFP)	4 SFP+ (Compatible with 1000X SFP)	–	4 SFP+ (Compatible with 1000X SFP)
	Switch Fabric	20Gbps	56Gbps	128Gbps	128Gbps	40Gbps	128Gbps
	Throughput	14.88Mpps	41.66Mpps	95.23Mpps	95.23Mpps	29.79Mpps	95.23Mpps
	PoE Spec.	PoE Standard					
	PSE Type	Mid-span + End-span					
Power Pin Assignment	Pair1: 1/2(+), 3/6(-) Pair2: 4/5(+), 7/8(-)	Pair1: 1/2(-), 3/6(+) Pair2: 4/5(+), 7/8(-)	Pair1: 1/2(-), 3/6(+) Pair2: 4/5(+), 7/8(-)	Pair1: 1/2(-), 3/6(+) Pair2: 4/5(+), 7/8(-)	Pair1: 1/2(-), 3/6(+) Pair2: 4/5(+), 7/8(-)	Pair1: 1/2(-), 3/6(+) Pair2: 4/5(+), 7/8(-)	
PoE Ability	PoE Port	8	8	16	24	16	24
	PoE Power Output	8 x 95W	8 x 95W	16 x 95W	24 x 95W	16 x 95W	8 x 95W 16 x 36W
	PoE Budget	180 watts max.	240 watts max.	420 watts max.	720 watts max.	400 watts max.	480 watts max. 200 watts max. @ fanless mode
Intelligent PoE Control	Over Temperature Protection	●	●	●	●	●	●
	PD Alive Check	●	●	●	●	●	●
	PoE Schedule	●	●	●	●	●	●
	Power Limit	●	●	●	●	●	●
	Scheduled Power Recycling	●	●	●	●	●	●
	PoE Classification	●	●	●	●	●	●
Protocols	VLAN	802.1Q, Q-in-Q, Voice VLAN, Private VLAN					
	Spanning Tree	802.1D/802.1w/802.1s					
	IGMP snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3
	ERPS	●	●	●	●	●	●
Security	802.1x Port based Authentication	●	●	●	●	●	●
	MAC Filtering	●	●	●	●	●	●
	Port Security	●	●	●	●	●	●
Management	Interface	Console, Telnet, HTTP	Console, Telnet, HTTP	Console, Telnet, HTTP	Console, Telnet, HTTP	Console, Telnet, HTTP	Console, Telnet, HTTP
	SNMP	v1, v2c, v3, trap	v1, v2c, v3, trap	v1, v2c, v3, trap	v1, v2c, v3, trap	v1, v2c, v3, trap	v1, v2c, v3, trap
	SSH/TLS	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●
Physical	Dimensions (W x D x H)	280 x 180 x 44 mm	280 x 230 x 44 mm	441.1 x 207.5 x 44.2 mm	440 x 330 x 44 mm	280 x 230 x 44 mm	440 x 207 x 44 mm
	Power Requirements	100~240V AC, 50/60Hz					
	Operating Temperature	0~50 degrees C	0~50 degrees C	0~50 degrees C	0~50 degrees C	0~50 degrees C	0~50 degrees C
Regulatory	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Layer 3 IPv6/IPv4 Managed PoE+ Switches

Stackable PoE+					
Model	SGS-6341-24P4X	SGS-6310-8P4X	SGS-6310-24P4X	SGS-6310-48P6XR	
Product Image					
Hardware	LCD	–	–	–	–
	10/100/1000BASE-T	24	8	24	48
	1000BASE-X SFP Slot	4	–	–	–
	10G SFP+ Slot	4 (1000X Compatible)	4 (1000X Compatible)	4 (1000X Compatible)	6 (1000X Compatible)
	PoE 802.3at Port	24	8	24	48
	PoE Budget	370W max.	120W max.	370W max.	370W max. AC 740W max. AC+DC
	Switch Fabric	128Gbps	96Gbps	128Gbps	216Gbps
	MAC Table	16K	16K	16K	32K
	Jumbo Frame	9K	9K	9K	9K
	Memory Buffer	1.5Mbytes	1.5Mbytes	1.5Mbytes	1.5Mbytes
Layer 3 Features	IP Interfaces	128	64 VLAN	64 VLAN	64 VLAN
	Routing Tables	1K	512	2K	2K
	Routing Protocols	Static routing, RIP and OSPF		IPv4/IPv6 Static Routing, OSPFv2/v3, RIPv1/v2, VRRPv1/v3	
	Accelerated Hardware	●	●	●	●
Interface	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both
Link Aggregation	Port Trunk	●	●	●	●
	LACP	●	●	●	●
VLAN	802.1Q VLAN	● / 4K	● / 4K	● / 4K	● / 4K
	Q-in-Q VLAN	●	●	●	●
	Private VLAN	●	●	●	●
Spanning Tree	802.1D	●	●	●	●
	802.1w	●	●	●	●
	802.1s	●	●	●	●
Rapid Data Recovery	ERPS	●	●	●	●
Multicast	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3
	MVR	●	●	●	●
Quality of Service	802.1p Priority	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues
	Priority Mode	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR
	IP TOS/DSCP	●	●	●	●
	QoS Mode	Port-CoS, DSCP-CoS, L4 Port-CoS		Port-CoS, DSCP-CoS, L4 Port-CoS	
Data Control	DiffServ Policy Qos	●	●	●	●
Access Control List	Ingress/Engress	● / ●	● / ●	● / ●	● / ●
	IP-based	●	●	●	●
Security	MAC-based	●	●	●	●
	802.1x Port-based Authentication	●	●	●	●
	MAC Filtering	●	●	●	●
Management	Port Security	●	●	●	●
	IPV6/IPv4	● / ●	● / ●	● / ●	● / ●
	Console	● / RJ45	● / RJ45	● / RJ45	● / RJ45
	Telnet	●	●	●	●
	Web Management	●	●	●	●
	SNMP	v1, v2c, v3	v1, v2c, v3 and trap	v1, v2c, v3 and trap	v1, v2c, v3 and trap
	RMON	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9
	SSH/TLS	● / ●	● / ●	● / ●	● / ●
	Firmware Upgrade	FTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP
	Configuration Backup/Recovery	●	FTP, TFTP	FTP, TFTP	FTP, TFTP
Single IP Management	● IP stacking: up to 24 units Hardware stacking: up to 4 units	● Hardware stacking: up to 8 units			
Syslog	●	●	●	●	
Physical	Dimensions (W x D x H)	440 x 320 x 44 mm	280 x 180 x 44 mm	440 x 210 x 44 mm	440 x 300 x 44 mm
	Power Supply	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz, 55V DC
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Layer 3/Layer 2+ IPv6/IPv4 Managed Gigabit PoE+ Switches

Standalone PoE+

Model	GS-6311-24P4XV	GS-6311-24PL4X	GS-6311-48P6X	MGS-6311-8P2X	GS-6320-8P2X	GS-5220-8P2T2S
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Product Image



Hardware	LCD	–	–	–	–	–	–
	10/100/1000BASE-T	24	24	48	8 10/100/1000/2500BASE-T	8	10
	100/1000BASE-X SFP	–	–	–	–	–	2
	10G SFP+ Slot	4 (Compatible with 1000X SFP)	4 (Compatible with 1000X SFP)	6 (Compatible with 1000X SFP)	2 (Compatible with 1000X SFP)	2, backward compatible with 1000X	–
	PoE 802.3at Port	24 x 32W	24 x 32W	48 x 32W	8 x 32W	8, up to 36W per port	8
	PoE Budget	370W	720W	500W/110VAC 600W/220VAC	240W	120W	240W
	Switch Fabric	128Gbps	128Gbps	216Gbps	80Gbps	56Gbps	24Gbps
	MAC Table	16K	16K	32K	16K	8K	8K
	Jumbo Frame	12K	12K	12K	12K	10K	9K
	Memory Buffer	12MB	12MB	16MB	12MB	32Mbit	1392KB
Layer 3 Features	IP Interfaces	1024	1024	1024	1024	32 VLAN	8 VLAN
	Routing Tables	6K	6K	12K	6K	32	32
	Routing Protocols	IPv4/IPv6 Static Routing, RIPv1/v2, RIPvng, OSPFv2/v3				IPv4/IPv6 Static Routing, OSPFv2	IPv4/IPv6 Static Routing
	Accelerated Hardware	●	●	●	●	●	–
Interface	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both
Link Aggregation	Port Trunk	●	●	●	●	●	●
	LACP	●	●	●	●	●	●
VLAN	802.1Q VLAN	●	●	●	●	● / 4K	● / 256
	Q-in-Q VLAN	●	●	●	●	●	●
	Private VLAN	●	●	●	●	●	●
Spanning Tree	802.1D	●	●	●	●	●	●
	802.1w	●	●	●	●	●	●
	802.1s	●	●	●	●	●	●
Rapid Data Recovery	ERPS	●	●	●	●	●	–
Multicast	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3
	MVR	●	●	●	●	●	●
Quality of Service	802.1p Priority	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues
	Priority Mode	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR
	IP TOS/DSCP	●	●	●	●	●	●
	QoS Mode	Port-CoS, DSCP-CoS, L4 Port-CoS		Port-CoS, DSCP-CoS, L4 Port-CoS		Port-CoS, DSCP-CoS, L4 Port-CoS	
	DiffServ Policy QoS	●	●	●	●	●	●
Data Control	Ingress/Egress	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●
Access Control List	IP-based	●	●	●	●	●	●
	MAC-based	●	●	●	●	●	●
Security	802.1x Port-based Authentication	●	●	●	●	●	●
	MAC Filtering	●	●	●	●	●	●
	Port Security	●	●	●	●	●	●
Management	IPv6/IPv4	●	●	●	●	● / ●	● / ●
	Console	● / RJ45	● / RJ45	● / RJ45	● / RJ45	● / RJ45	● / RJ45
	Telnet	●	●	●	●	●	●
	Web Management	●	●	●	●	●	●
	SNMP	v1, v2c, v3 and trap	v1, v2c, v3 and trap	v1, v2c, v3 and trap	v1, v2c, v3 and trap	v1, v2c, v3	v1, v2c, v3
	RMON	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9
	SSH/TLS	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●
	Firmware Upgrade	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP
	Configuration Backup/Recovery	●	●	●	●	●	●
	Single IP Management	–	–	–	–	–	–
Syslog	●	●	●	●	●	●	
Physical	Dimensions (W x D x H)	440 x 207 x 44 mm	440 x 330 x 44 mm	440 x 330 x 44 mm	330x230x43.5 mm	330 x 150 x 44 mm	330 x 200 x 44 mm
	Power Supply	100–240V AC, 50/60Hz		100–240V AC, 50/60Hz		100–240V AC, 50/60Hz	
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Layer 2/4 Managed Gigabit PoE+ Switches

PoE+								
Model	GS-4210-48P4S	GS-4210-24P4C GS-4210-24PL4C	GS-4210-24P2S	GS-4210-16P4C	GS-4210-16P2S	GS-4210-8P2C	GS-4210-8P2S	
Product Image								
Hardware	10/100BASE-TX	–	–	–	–	–	–	
	10/100/1000BASE-T	48	28	24	20	16	10	
	Mini-GBIC/SFP	4	4 Combo	2.5G	4 Combo	2.5G	2	
	PoE 802.3at Port	48	24	24	16	16	8	
	PoE Budget	600W	370W/650W	370W	240W	240W	120W	
	Switch Fabric	104Gbps	56Gbps	58Gbps	40Gbps	42Gbps	24Gbps	
	MAC Table	16K	16K	16K	16K	16K	8K	
	Jumbo Frame	9K	12K	12K	12K	12K	9K	
Interface	Memory Buffer	4Mbit	4Mbit	4Mbit	4Mbit	4Mbit	4Mbit	
	Port Configuration	●	●	●	●	●	●	
Link Aggregation	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	
	Port Trunk	●	●	●	●	●	●	
VLAN	LACP	●	●	●	●	●	●	
	Port-based	–	–	–	–	–	–	
	802.1Q VLAN	● / 256	● / 256	● / 256	● / 256	● / 256	● / 256	
Spanning Tree	Q-in-Q VLAN	●	●	●	●	●	●	
	Private VLAN	●	●	●	●	●	●	
	802.1D	●	●	●	●	●	●	
Rapid Data Recovery	802.1w	●	●	●	●	●	●	
	802.1s	●	●	●	●	●	●	
Multicast	ERPS	●	●	●	●	●	●	
	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3	
Quality of Service	MVR	–	–	●	●	●	●	
	802.1p Priority	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues	● / 8 queues	
	Priority Mode	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	
	IP TOS/DSCP	●	●	●	●	●	●	
	QoS Mode	Port-CoS, DSCP-CoS, L4 Port-CoS			Port-CoS, DSCP-CoS, L4 Port-CoS			
Data Control	DiffServ Policy QoS	–	–	–	–	–	–	
	Ingress/Egress	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	
Access Control List	IP-based	●	●	●	●	●	●	
	MAC-based	●	●	●	●	●	●	
Security	802.1x Port-based Authentication	●	●	●	●	●	●	
	MAC Binding	●	●	●	●	●	●	
	MAC Filtering	●	●	●	●	●	●	
	Port Security	●	●	●	●	●	●	
Management	IPv6/IPv4	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	
	Console	● / RJ45	● / RJ45	● / RJ45	● / RJ45	● / RJ45	● / RJ45	
	Telnet	●	●	●	●	●	●	
	Web Management	●	●	●	●	●	●	
	SNMP	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	
	RMON	1,2,3,9	1,2,3,9	1,2,3,9	1,2,3,9	1,2,3,9	1,2,3,9	
	SSH/TLS	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	
	Firmware Upgrade	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	
	Configuration Backup/Recovery	●	●	●	●	●	●	
	Single IP Management	–	–	–	–	–	–	
Syslog	●	●	● / ●	● / ●	● / ●	●		
Physical	Dimensions (W x D x H)	440 x 300 x 44 mm	24P4C: 440 x 207 x 44 mm 24PL4C: 440 x 330 x 44 mm	440 x 207 x 44 mm	440 x 207 x 44 mm	440 x 207 x 44 mm	280 x 180 x 44 mm	
	Power Supply	100–240V AC, 50/60Hz		100–240V AC, 50/60Hz		100–240V AC, 50/60Hz		
	EMI/Safety	FCC Class A, CE		FCC Class A, CE		FCC Class A, CE		

Layer 2/4 Managed Smart Fast Ethernet PoE+ Switches

PoE+			
Model	FGSW-1816HPS	FGSW-2624HPS	
Product Image			
Hardware	10/100BASE-TX	16	24
	10/100/1000BASE-T	2	2
	Mini-GBIC/SFP	2 combo	2 combo
	PoE 802.3at Port	16	24
	PoE Budget	240W	240W
	Switch Fabric	7.2Gbps	8.8Gbps
	MAC Table	16K	16K
	Jumbo Frame	16K	16K
Memory Buffer	4Mbit	4Mbit	
Interface	Auto-negotiation	●	●
	802.3x Flow Control	●	●
	Port Configuration	●	●
	Port Mirror	TX, RX, Both	TX, RX, Both
Link Aggregation	Static Port Trunk	●	●
	802.3ad LACP	●	●
VLAN	Port-based VLAN	●	●
	802.1Q VLAN	● / 256	● / 256
Spanning Tree Protocol	802.1D STP	●	●
	802.1w RSTP	●	●
Multicast	IGMP Snooping	v1, v2, v3	v1, v2, v3
	802.1p Priority	● / 8 queues	● / 8 queues
Quality of Service	DSCP	●	●
	Priority Mode	Strict/WRR	Strict/WRR
	QoS Mode	Port-CoS, IP ToS	Port-CoS, IP ToS
	Ingress	●	●
Data Control	Egress	●	●
	IP-based	●	●
Access Control List	Mac-based	●	●
	802.1x Port-based Authentication	-	-
Security	Static MAC	●	●
	MAC Filter	●	●
	IP Filter	-	-
	Console	●	●
Management	Web Management	●	●
	SNMP	v1, v2c, v3	v1, v2c, v3
	Management Utility	●	●
	Firmware Upgrade	HTTP	HTTP
	Cable Diagnostic	-	-
	Dimensions (W x D x H)	440 x 208 x 44 mm	440 x 208 x 44 mm
Physical	Power Supply	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz
	EMI/Safety	FCC Class A, CE	FCC Class A, CE

Unmanaged LCD PoE+ Switches

Model	Fast Ethernet/PoE+			Gigabit/PoE+		
	FGSD-1022VHP	FGSW-2622VHP	GSD-1222VHP	GSW-1820VHP	GSW-2620VHP	
Product Image						
Hardware	LCD	2" mono	2" color	2" mono	2" color	2" color
	10/100BASE-TX	8	24	-	-	-
	10/100/1000BASE-T	2	2	10	16	24
	Mini-GBIC/SFP	2	2	2	2	2
	PoE 802.3bt	-	-	-	-	-
	PoE 802.3af/at Port	8	24	8	16	24
	PoE Budget	120W	300W	120W	300W	300W
	Switch Fabric	5.6Gbps	12.8Gbps	24Gbps	36Gbps	52Gbps
	MAC Table	8K	8K	8K	8K	8K
	Jumbo Frame	9K	9K	9K	9K	9K
Memory Buffer	2.75Mb	2.75Mb	4.1Mb	4.1Mb	4.1Mb	
Interface	Auto-negotiation	●	●	●	●	●
	802.3x Flow Control	●	●	●	●	●
Physical	Dimensions (W x D x H)	280 x 180 x 44 mm	440 x 230 x 44 mm	280 x 180 x 44 mm	440 x 233 x 44 mm	440 x 233 x 44 mm
	Power Supply	100~240V AC, 50/60Hz		100~240V AC, 50/60Hz	100~240V AC	
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE
	Material	Metal	Metal	Metal	Metal	Metal
	Rack mountable	●	●	●	●	●

Unmanaged PoE/PoE+ Switches

Fast Ethernet PoE+						
Model	FSD-604HP	FSD-1008HP	FGSD-1011HP	FGSD-1821P	FGSW-2511P	
Product Image						
Hardware	10/100BASE-TX	6	10	8	16	24
	10/100/1000BASE-T	–	–	1	2	1
	Mini-GBIC/SFP	–	–	1	1	1
	PoE 802.3af/at Port	4 (802.3at)	8 (802.3at)	8 (802.3at)	16 (802.3at)	24 (802.3at)
	PoE Budget	60W	120W	120W	185W	190W
	Switch Fabric	1.2Gbps	2Gbps	5.6Gbps	7.2Gbps	6.8Gbps
	MAC Table	2K	8K	4K	16K	16K
	Jumbo Frame	1536 bytes	1522 bytes	9K bytes	16K bytes	16K bytes
	Memory Buffer	2Mb	2Mb	2Mb	2Mb	2Mb
DIP Switch	Standard/Extend (250m)		Standard/VLAN/Extend (250m)		Standard/VLAN/Extend (250m)	
Interface	Auto-negotiation	●	●	●	●	●
	802.3x Flow Control	●	●	●	●	●
Physical	Dimensions (WxDxH)	168 x 93 x 32 mm	220 x 150 x 43 mm	220 x 150 x 43 mm	280 x 180 x 44 mm	440 x 200 x 45 mm
	Power Supply	100~240V AC	100~240V AC	100~240V AC	100~240V AC	100~240V AC
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE
	Material	Metal	Metal	Metal	Metal	Metal
	Rack mountable	●	●	●	●	●

Unmanaged PoE+/PoE++ Switches

Gigabit PoE+/PoE++					
Model	GSD-1022UP	GSD-604HP	WGS-804HP WGS-814HP WGS-818HP	GSD-908HP	
Product Image					
	10/100/1000BASE-T	8	6	8	9
	Mini-GBIC/SFP	2	–	–	–
	PoE 802.3bt Port	2	–	–	–
	PoE 802.3at Port	4	4	4/8	8
	PoE Budget	180W	60W	60W/120W	100W
	Switch Fabric	20Gbps	12Gbps	16Gbps	18Gbps
	MAC Table	4K	8K	4K/8K	4K
	Jumbo Frame	9K	9K	9K	9K
	Memory Buffer	–	1Mb	–	–
	DIP Switch	Legacy/BT/UPOE	Standard/Extend (250m)	Standard/VLAN/Extend (WGS-814HP and WGS-818HP)	Standard/VLAN
Interface	Auto-negotiation	●	●	●	●
	802.3x Flow Control	●	●	●	●
Physical	Dimensions (W x D x H)	220 x 150 x 44 mm	160 x 92.5 x 28 mm	148 x 25 x 134 mm	168 x 94 x 32 mm
	Power Supply	55V DC	55V DC	48~56V DC	55V DC
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE
	Material	Metal	Metal	IP30 Metal	Metal
	Rack mountable	–	–	–	–

Gigabit PoE+/PoE++						
Model	GSD-1008HP	MGS-910XP	GSD-2022P	GSW-1820HP/GSW-2620HP	GSW-5240HP	
Product Image						
	10/100BASE-TX	–	–	–	–	
	10/100/1000BASE-T	10	8 x 100/1000/2500	18	16/24	48
	Mini-GBIC/SFP	–	2 x 10G SFP+	–	2	4
	PoE 802.3bt Port	–	–	–	–	–
	PoE 802.3at Port	8	8	16	16/24	48
	PoE Budget	120W	120W	185W	250W	370W
	Switch Fabric	20Gbps	60Gbps	40Gbps	36Gbps/52Gbps	104Gbps
	MAC Table	8K	4K	8K	8K	16K
	Jumbo Frame	9K	9K	9K	9K	12K
	Memory Buffer	2Mb	–	–	4.1Mb	–
DIP Switch	Standard/VLAN	Standard/VLAN	Standard/VLAN/Extend (250m)	Standard/VLAN/Extend	–	
Interface	Auto-negotiation	●	●	●	●	●
	802.3x Flow Control	●	●	●	●	●
Physical	Dimensions (W x D x H)	220 x 150 x 43 mm	280 x 180 x 44 mm	280 x 180 x 44 mm	441 x 207 x 44 mm	440 x 330 x 44 mm
	Power Supply	100~240V AC	100~240V AC	100~240V AC	100~240V AC	100~240V AC
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE
	Material	Metal	Metal	Metal	Metal	Metal
	Rack mountable	●	●	●	●	●

802.3bt PoE++ Injector Hubs

Managed Injector Hubs							
Model	UPOE-2400XG	UPOE-1600XG	UPOE-800XG	UPOE-2400G	UPOE-1600G	UPOE-800G	
Product Image							
Hardware	RJ45 Data Input Ports	24	16	8	24	16	8
	RJ45 Data + Power Output Ports	24	16	8	24	16	8
	Pass-through Data Rate	10/100/1G 2.5G.5G.10Gbps	10/100/1G 2.5G.5G.10Gbps	10/100/1G 2.5G.5G.10Gbps	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps
PoE Spec.	PoE Standard	802.3bt (802.3at Compliant)	802.3bt (802.3at Compliant)	802.3bt (802.3at Compliant)	802.3bt (802.3at Compliant)	802.3bt (802.3at Compliant)	802.3bt (802.3at Compliant)
	PSE Type	End-span + Mid-span / End-span/Mid-span		End-span + Mid-span / End-span/Mid-span		End-span + Mid-span / End-span/Mid-span	
	Power Pin Assignment	Pair 1: 1/2(-), 3/6(+) Pair 2: 4/5(+), 7/8(-)	Pair1: 1/2(-), 3/6(+) Pair2: 4/5(+), 7/8(-)	Pair1: 1/2(-), 3/6(+) Pair2: 4/5(+), 7/8(-)	Pair 1: 1/2(-), 3/6(+) Pair 2: 4/5(+), 7/8(-)	Pair1: 1/2(-), 3/6(+) Pair2: 4/5(+), 7/8(-)	Pair1: 1/2(-), 3/6(+) Pair2: 4/5(+), 7/8(-)
PoE Ability	PoE Port	24	16	8	24	16	8
	PoE Power Output	95W max.	95W max.	95W max.	95W max.	95W max.	95W max.
	PoE Budget	800 watts max.	600 watts max.	400 watts max.	800 watts max.	600 watts max.	400 watts max.
	Number of Class 2 PDs @ 6.5 watts	24	16	8	24	16	8
	Number of Class 3 PDs @ 12.9 watts	24	16	8	24	16	8
	Number of Class 4 PDs @ 25 watts	24	16	8	24	16	8
Intelligent PoE Control	Over Temperature Protection	●	●	●	●	●	●
	PD Alive Check	●	●	●	●	●	●
	PoE Schedule	●	●	●	●	●	●
	Power Limit	●	●	●	●	●	●
	PoE Priority	●	●	●	●	●	●
	PoE Classification	●	●	●	●	●	●
	PoE Event/ Threshold Trap	●	●	●	●	●	●
Management	Force mode	●	●	●	●	●	●
	Interface	HTTP/HTTps	HTTP/HTTps	HTTP/HTTps	HTTP/HTTps	HTTP/HTTps	HTTP/HTTps
	SNMP	v1,v2,v3 trap	v1, v2,v3 trap	v1, v2,v3 trap	v1,v2,v3 trap	v1, v2,v3 trap	v1, v2,v3 trap
Physical	Dimensions (W x D x H)	440 x 300 x 44 mm	440 x 300 x 44 mm	440 x 300 x 44 mm	440 x 300 x 44 mm	440 x 300 x 44 mm	440 x 300 x 44 mm
	Rackmountable	●	●	●	●	●	●
	Power Supply	Internal	Internal	Internal	Internal	Internal	Internal
Regulatory	Power Requirements	100-240V AC, 50/60Hz	100-240V AC, 50/60Hz	100-240V AC, 50/60Hz	100-240V AC, 50/60Hz	100-240V AC, 50/60Hz	100-240V AC, 50/60Hz
	Operating Temperature	0-50 degrees C	0-50 degrees C	0-50 degrees C	0-50 degrees C	0-50 degrees C	0-50 degrees C
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Unmanaged Injector Hubs

Model	UPOE-400	IPOE-270 IPOE-270-12V	IPOE-470 IPOE-470-12V	
Product Image				
Hardware	RJ45 Data Input Ports	4	2	4
	RJ45 Data + Power Output Ports	4	2	4
	Pass-through Data Rate	10/100/1000/ 2500/5000Mbps	10/100/1000/ 2500/5000Mbps	10/100/1000Mbps
PoE Spec.	PoE Standard	802.3bt, PoH (802.3at Compliant)	802.3bt, PoH (802.3at Compliant)	802.3bt, PoH (802.3at Compliant)
	PSE Type	Mid-span + End-span	Mid-span + End-span	Mid-span + End-span
	Power Pin Assignment	Pair1: 1/2(-), 3/6(+) Pair2: 4/5(+), 7/8(-)	Pair1: 1/2(-), 3/6(+) Pair2: 4/5(+), 7/8(-)	Pair1: 1/2(-), 3/6(+) Pair2: 4/5(+), 7/8(-)
PoE Ability	PoE Port	4	2	4
	PoE Power Output	95W max.	90W max.	95W max.
	PoE Budget	160 watts max.	180 watts max.	240 watts max.
	Number of Class 2 PDs @ 6.5 watts	4	2	4
	Number of Class 3 PDs @ 12.9 watts	4	2	4
Intelligent PoE Control	Number of Class 4 PDs @ 25 watts	4	2	4
	Over Temperature Protection	-	-	-
	PD Alive Check	-	-	-
	PoE Schedule	-	-	-
	Power Limit	-	-	-
	PoE Priority	-	-	-
Management	PoE Classification	-	-	-
	PoE Event/Threshold Trap	-	-	-
	Force mode	-	-	-
Physical	Interface	-	-	-
	SNMP	-	-	-
	Dimensions (W x D x H)	94 x 70.3 x 39.2 mm	41 x 70 x 115 mm	50 x 87.8 x 135 mm
Regulatory	Rackmountable	-	-	-
	Power Supply	External	External	External
	Power Requirements	52-54V DC	12-56V DC	12-54V DC
Regulatory	Operating Temperature	0-50 degrees C	-40-75 degrees C	-40-75 degrees C
	EMI/Safety	FCC Class B, CE	FCC Class A, CE	FCC Class A, CE

PoE Network Adapters

PoE Network Adapters			
Model	ENW-9720P	ENW-9740P	
Product Image			
Attached Interface	x4 PCI Express v2.0	x4 PCI Express v2.1	
Network Interface	Dual Port 10/100/1000Mbps	Dual Port 10/100/1000Mbps	
PoE	802.3at/af		
OS Support	Windows 10	●	●
	Windows 8	●	●
	Windows 7	●	●
	Windows XP	●	●
	Windows 2008	●	●
	Linux	●	●

60-watt/95-watt 802.3bt PoE++/Ultra PoE Injectors, Splitters & Extenders

Injectors									
Model	POE-171A-60 POE-171A-95	POE-176-95	POE-172	POE-173	POE-175-95	IPOE-171-60W IPOE-171-95W	IPOE-175	IPOE-176 (10G PoE++)	
Product Image									
	10G				10G				
Hardware	RJ45 Data Input Port	1	1	1	1	1	1	1	
	RJ45 Data + Power Output Port	1	1	1	1	1	1	1	
	Data Rate	10/100/1G 2.5G/5G	10/100/1G 2.5G/5G/10Gbps	10/100/1000Mbps			10/100/1G/2.5G/5G	10/100/1000Mbps	10/100/1G 2.5G/5G/10Gbps
PoE Spec.	PoE Standard	802.3bt PoE++		Ultra PoE (802.3at Compliant)		802.3bt (802.3at Compliant)			
	PSE Type	Mid-span + End-span		Mid-span + End-span		Mid-span + End-span			
	Power Pin Assignment	Pair1: 1/2(-), 3/6(+) Pair2: 4/5(+), 7/8(-)		Pair1: 1/2(-), 3/6(+) Pair2: 4/5(+), 7/8(-)		Pair 1: 1/2 (-), 3/6 (+) Pair 2: 4/5 (+), 7/8 (-)			
PoE Ability	PoE Port	1	1	1	1	1	1	1	
	PoE Power Output	54V DC	54V DC	56V DC	50V DC	54V DC	48-54V DC	55V DC	54V DC
	PoE Ability	60 watts 95 watts	60 watts 95 watts	60 watts	60 watts	95 watts	60 watts 95 watts	60 watts	95 watts
Physical	Dimensions (W x D x H)	90 x 70 x 26 mm		115 x 62.5 x 31 mm		170 x 100 x 40 mm	32 x 87 x 135 mm	150 x 43.8 x 72.94 mm	32 x 87 x 135 mm
	Power Supply	External	External	Internal	Internal	Internal	External	External	External
	Power Requirements	100-240V AC, 50/60Hz		100-240V AC, 50/60Hz			48-56V DC 12-48V DC	24-56V DC	48-54V DC
	Operating Temperature	0-50 degrees C		0-50 degrees C				-40-75 degrees C	
Regulatory	EMI/Safety	FCC Class A, CE		FCC Class A, CE				FCC Class A, CE	

Splitters						Extenders			
Model	POE-171S POE-172S	POE-173S POE-173S-12V	IPOE-173S	IPOE-175S	IPOE-176S	POE-E304	IPOE-E174	IPOE-E302	
Product Image									
	10G								
Hardware	Data + Power Input Port	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45	
	Data Power Output Port	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45	4 x RJ45 Data + Power	2 x RJ45 Data + Power	
	DC Output Voltage	12V/19V/24V DC, Max. 2A	173S-12V:12V ; 173S:12V/19V/24V DC, Max. 2A		12V Max. 5A	Adjustable 12V/19V/24V	PoE 44-57V DC		
	DIP Switch	Adjustable 12V/19V/24V	Adjustable 12V/19V/24V		-	Adjustable 12V/19V/24V	-	-	-
	Data Rate	10/100/1000Mbps	10/100/1000Mbps			10/100/1G 2.5G/5G/10Gbps	10/100/1000Mbps		
PoE Spec.	PoE Standard	4-Pair PoE/ Ultra PoE/PoH	802.3bt/PoH			802.3bt/Ultra PoE (802.3at Compliant)			
	PD Type	Both Mid-span and End-span	Both Mid-span and End-span			Both Mid-span and End-span			
	PoE Power Input	52-56V DC	52-56V DC	52-56V DC	52-56V DC	52-56V DC	52-56V DC	52-56V DC	52-56V DC
Physical	Dimensions (W x D x H)	95 x 70 x 26 mm	95 x 70 x 39.2 mm	32 x 87 x 135 mm	150 x 43.8 x 72.94 mm	32 x 87 x 135 mm	160 x 92.5 x 28 mm	56 x 87.8 x 135 mm	150 x 43.8 x 72.94 mm
	Operating Temperature	0-50 degrees C		-40-75 degrees C			0-50 degrees C	-40-75 degrees C	
Regulatory	EMI/Safety	FCC Class A, CE							

PoE Injector Hubs

802.3at PoE+

Model HPOE-2400G POE-2400G HPOE-1200G POE-1200G HPOE-460

Product Image



Model	HPOE-2400G	POE-2400G	HPOE-1200G	POE-1200G	HPOE-460	
Hardware	RJ45 Data Input Ports	24	24	12	12	4
	RJ45 Data + Power Output Ports	24	24	12	12	4
	Pass-through Data Rate	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps
PoE Spec.	PoE Standard	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at
	PSE Type	Mid-span	Mid-span	Mid-span	Mid-span	Mid-span
	Power Pin Assignment	4/5(+), 7/8(-)	4/5(+), 7/8(-)	4/5(+), 7/8(-)	4/5(+), 7/8(-)	4/5(+), 7/8(-)
PoE Ability	PoE Port	24	24	12	12	4
	PoE Power Output	54V DC, 36 watts max.	52V DC, 36 watts max.			
	PoE Budget	720 watts max.	440 watts max.	360 watts max.	220 watts max.	120 watts max.
	Number of Class 2 PD @ 6.5 watts	24	24	12	12	4
	Number of Class 3 PD @ 12.9 watts	24	14	12	7	4
	Number of Class 4 PD @ 25 watts	24	14	12	7	4
Intelligent PoE Control	Over Temperature Protection	●	●	●	●	●
	PD Alive Check	-	-	-	-	-
	PoE Schedule	●	●	●	●	-
	Power Limit	●	●	●	●	-
	PoE Priority	●	●	●	●	-
	PoE Classification	●	●	●	●	-
	PoE Event/Threshold Trap	●	●	●	●	-
Management	Interface	HTTP/HTTps	HTTP/HTTps	HTTP/HTTps	HTTP/HTTps	-
	SNMP	v1, v2,v3 trap	v1, v2,v3 trap	v1, v2,v3 trap	v1, v2,v3 trap	-
Physical	Dimensions (W x D x H)	440 x 300 x 44 mm	94 x 70.3 x 26.2 mm			
	Rackmountable	●	●	●	●	Wall mount
	Power Supply	Internal	Internal	Internal	Internal	External
	Power Requirements	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz	52V~56V DC
	Operating Temperature	0~50 degrees C				
Regulatory	EMI/Safety	FCC Class A, CE				

PoE Injectors & Media Converters

802.3at PoE+ Injector					
Model	POE-163	POE-165	IPOE-162	IPOE-260	
Product Image					
Hardware	RJ45 Data Input Port	1 x RJ45	1 x RJ45	1 x RJ45	2 x RJ45
	RJ45 Data + Power Output Port	1 x RJ45	1 x RJ45	1 x RJ45	2 x RJ45
	Data Rate	10/100/1000Mbps	10/100/1G/2.5G/5Gbps	10/100/1000Mbps	10/100/1000Mbps
PoE Spec.	PoE Standard	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at
	PSE Type	Mid-span	Mid-span	Mid-span	Mid-span
	Power Pin Assignment	4/5(+), 7/8(-)	4/5(+), 7/8(-)	4/5(+), 7/8(-)	4/5(+), 7/8(-)
	PoE Port	1	1	1	2
	PoE Power Output	53V DC	53V DC	56V DC	54V/56V DC
	PoE Ability	30 watts	30 watts	30 watts	36 watts
Physical	Dimensions (W x D x H)	115 x 62.5 x 31 mm	115 x 62.5 x 31 mm	32 x 87 x 135 mm	30 x 70 x 105 mm
	Power Supply	Internal	Internal	External	External
	Power Requirements	100~240V AC,50/60Hz		12-48V DC	12-56V DC
	Operating Temperature	0~50 degrees C	0~50 degrees C	-40-75 degree C	-40-75 degree C
Regulatory	EMI/Safety		FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

802.3at PoE+ Media Converter				802.3af PoE		
Model	GTP-805A	IGTP-2205AT	IGTP-815AT	FTP-802	FTP-802S15	
Product Image						
Hardware	Fiber Port	1 x 1000X/LC/Vary on Module	2 x 1000X/LC/Vary on Module	1 x 1000X/LC/Vary on Module	1 x 100FX/SC/MM/2km	
	RJ45 Data + Power Output Port	1 x RJ45	2 x RJ45	1 x RJ45	1 x RJ45	
	Data Rate	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100Mbps	10/100Mbps
PoE Spec.	PoE Standard	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at	802.3af	802.3af
	PSE Type	Mid-span	End-span	End-span	End-span	End-span
	Power Pin Assignment	4/5(+), 7/8(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)
	PoE Port	1	2	1	1	1
	PoE Power Output	52V DC	48~54V DC	48~54V DC	48V DC	48V DC
	PoE Ability	30 watts	2 x 36 watts	36 watts	15.4 watts	15.4 watts
Physical	Dimensions (W x D x H)	97 x 70 x 26 mm	30 x 70 x 104 mm	30 x 70 x 104 mm	97 x 70 x 26 mm	97 x 70 x 26 mm
	Power Supply	External	External	External	External	External
	Power Requirements	100~240V AC, 50/60Hz	48-54V DC	48-56V DC	100~240V AC, 50/60Hz	
	Operating Temperature	0~50 degrees C	-40-75 degree C	-40-75 degree C	0~50 degrees C	0~50 degrees C
Regulatory	EMI/Safety		FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	

PoE Extenders & Splitters

PoE Extenders							
Model	POE-E201	POE-E202	POE-E304	IPOE-E174	POE-E301	IPOE-E302	
Product Image							
Hardware	Data + Power Input Port	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
	Data + Power Output Port	1 x RJ45	2 x RJ45	4 x RJ45	4 x RJ45	1 x RJ45	2 x RJ45
	DC Output Voltage	PoE 48~56V DC, max. 510mA		PoE 44~55V DC, max. 510mA		PoE 48~56V DC, max. 510mA	PoE 48~56V DC, max. 510mA
	DIP Switch	-	-	-	-	BT/UPOE	-
	Data Rate	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps
PoE Spec.	PoE Standard	802.3af/802.3at	802.3af/802.3at	PD: Ultra PoE PSE: 802.3af/802.3at		802.3bt PoE++	802.3bt PoE++
	PSE Type	End-span	End-span	End-span	End-span	End-span + Mid-span	End-span + Mid-span
	PoE Power Input	52~56V DC	52~56V DC	52~56V DC	44~55V DC	50~56V DC	50~57V DC
Physical	Dimensions (W x D x H)	97 x 70 x 26 mm	97 x 70 x 26 mm	160 x 92.5 x 28 mm	32 x 85 x 135 mm	97 x 70 x 26 mm	150 x 43.8 x 72.94 mm
	Operating Temperature	0~50 degrees C	0~50 degrees C	0~50 degrees C	-40~75 degrees C	0~50 degrees C	-40~75 degrees C
Regulatory	EMI/Safety		FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

PoE Extenders & Splitters

PoE Splitters				
Model		POE-161S	POE-162S	IPOE-162S
Product Image				
Hardware	Data + Power Input Port	1 x RJ45	1 x RJ45	1 x RJ45
	Data Output Port	1 x RJ45	1 x RJ45	1 x RJ45
	DC Output Voltage	5V/12V	12V/24V DC, max. 2A	12V/24V DC, max. 2A
	DIP Switch	Adjustable 5V/12V DC	Adjustable 12V/24V DC	Adjustable 12V/24V DC
	Data Rate	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps
PoE Spec.	PoE Standard	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at
	PD Type	Mid-span and End-span	Mid-span and End-span	Mid-span and End-span
	PoE Power Input	52-56V DC	52-56V DC	52-56V DC
Physical	Dimensions (W x D x H)	97 x 70 x 25 mm	97 x 70 x 25 mm	32 x 87.8 x 135 mm
	Operating Temperature	0-50 degrees C	0-50 degrees C	-40-75 degrees C
Regulatory	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Long Reach PoE Series

Coaxial Switches			
Model		LRP-822CS	LRP-1622CS
Product Image			
Ethernet Interfaces	10/100BASE-TX	-	-
	10/100/1000BASE-T	2 x RJ45	2 x RJ45
	1000BASE-SX/LX	2 x SFP slot	2 x SFP slot
	Cabling	Copper: Cat5e or above Fiber: multi-mode 50/125um; Single mode 9/125um	
	Maximum Distance	Copper: 100m Fiber: vary on SFP module; up to 120km	
Long Reach PoE Interfaces	Connectivity	8 x BNC female	16 x BNC female
	Cabling	Coaxial cable: 75ohm	
	Maximum Distance	1000m	1000m
	Data Rate	200m: 75Mbps/81Mbps (Download/Upload)	1000m: 31Mbps/38Mbps (Download/Upload)
	Power Output	54V DC over coaxial, 36 watts max.	52V DC over coaxial, 36 watts max.
	Total Power Budget	240 watts max.	440 watts max.
	Encryption	AES 128-bit	
PoE Ability	PoE Standard	Power over coaxial	
	PoE Port	8	16
	PoE Power Output	54V DC	52V DC
Intelligent Power Control	Over Temperature Protection	●	●
	PD Alive Check	●	●
	PoE Schedule	●	●
	Power Limit	●	●
	Scheduled Power Recycling	●	●
Protocols	VLAN	802.1Q, Q-in-Q, Voice VLAN, Private VLAN	
	Spanning Tree	802.1D/802.1w/802.1s	802.1D/802.1w/802.1s
	IGMP Snooping	v1, v2, v3	v1, v2, v3
Management	Interface	Console, Telnet, HTTP	
	SNMP	v1, v2c, v3, trap	v1, v2c, v3, trap
	SSH/SSL	● / ●	● / ●
Physical	Dimensions (W x D x H)	440 x 300 x 44 mm	440 x 300 x 44 mm
	Power Requirements	100-240V AC, 50/60Hz	100-240V AC, 50/60Hz
	Operating Temperature	0-50 degrees C	0-50 degrees C
Regulatory	EMI/Safety	FCC Class A, CE	

Long Reach PoE Series

Long Reach PoE Injectors				
Model	LRP-101CH	LRP-101UH	LRP-111UH	
Product Image				
Ethernet Interfaces	10/100BASE-TX	1 x RJ45 PoE PD	1 x RJ45 PoE PD	1 x RJ45 PoE PD
	10/100/1000BASE-T	-	-	-
	PoE Power	-	-	-
	Cabling	Cat5e or above	Cat5e or above	Cat5e or above
	Maximum Distance	100m	100m	100m
Long Reach PoE Interfaces	Connectivity	1 x BNC female (PSE)	1 x RJ45 Copper (PSE)	1 x RJ45 Copper (PSE)
	Cabling	Coaxial cable: 75ohm	Copper: 4-pair or 1-pair UTP	Copper: 4-pair UTP
	Maximum Distance	1000m	500m	800m
	Data Rate (Down/upstream)	200m: 58Mbps/58Mbps 1000m: 48Mbps/46Mbps	200m: 58Mbps/58Mbps 500m: 56Mbps/56Mbps	500m: 100Mbps/100Mbps 800m: 10Mbps/10Mbps
	Power Output	56V DC, 36 watts max.	56V DC, 36 watts max.	54V DC, 60 watts max.
	Total Power Budget	36 watts max.	36 watts max.	70 watts max.
	Encryption	AES 128-bit	AES 128-bit	-
PoE Ability	PoE Standard	Power over coaxial	Power over UTP	Power over UTP
	PoE Port	1 x BNC female (PSE)	1 x UTP	1 x UTP
	PoE Power Output	44-56V DC	44-56V DC	54V DC
Physical	Dimensions (W x Dx H)	90 x 70 x 26 mm	90 x 70 x 26 mm	104 x 70 x 30 mm
	Power Requirements	DC: 48-56V DC PoE: 802.3af input	DC: 48-56V DC PoE: 802.3af input	DC: 52-54V DC PoE: 802.3bt input
	Operating Temperature	-20 ~ 70 degree C	-20 ~ 70 degree C	-40 ~ 75 degree C
Regulatory	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Long Reach PoE Extenders				
Model	LRP-101CE	LRP-101UE	LRP-111UE	
Product Image				
Ethernet Interfaces	10/100BASE-TX	1 x RJ45 PoE PSE	1 x RJ45 PoE PSE	1 x RJ45 PoE PSE
	10/100/1000BASE-T	-	-	-
	PoE Power	44-54V DC, 600mA max.	44-54V DC, 600mA max.	54V DC, 1.1A max.
	Cabling	Cat5e or above	Cat5e or above	Cat5e or above
	Maximum Distance	100m	100m	100m
Long Reach PoE Interfaces	Connectivity	1 x BNC female (PD)	1 x RJ45 Copper (PD)	1 x RJ45 Copper (PD)
	Cabling	Coaxial cable: 75ohm	Copper: 4-pair or 1-pair UTP	Copper: 4-pair UTP
	Maximum Distance	1000m	500m	800m
	Data Rate (Down/upstream)	200m: 58Mbps/58Mbps 1000m: 48Mbps/46Mbps	200m: 58Mbps/58Mbps 500m: 56Mbps/56Mbps	500m: 100Mbps/100Mbps 800m: 10Mbps/10Mbps
	Power Output	-	-	-
	Total Power Budget	-	-	-
	Encryption	AES 128-bit	AES 128-bit	-
PoE Ability	PoE Standard	802.3af/802.3at	802.3af/802.3at	802.3bt
	PoE Port	1 x RJ45	1 x RJ45	1 x RJ45
	PoE Power Output	54V DC, 600mA max.	54V DC, 600mA max.	54V DC, 1.1A max.
Physical	Dimensions (W x Dx H)	90 x 70 x 26 mm	90 x 70 x 26 mm	104 x 70 x 30 mm
	Power Requirements	44-57V DC PoC or PoU	44-57V DC PoC or PoU	52-54V DC PoC or PoU
	Operating Temperature	-20 ~ 70 degree C	-20 ~ 70 degree C	-40 ~ 75 degree C
Regulatory	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Fiber Optic Transceivers

Fast Ethernet Transceivers (100BASE-X SFP)

Model	MFB-FX	MFB-F20	MFB-F40	MFB-F60	MFB-F120	MFB-TFX	MFB-TF20
Product Image							
Speed (Mbps)	100	100	100	100	100	100	100
Connector Interface	LC	LC	LC	LC	LC	LC	LC
Fiber Mode	Multi Mode	Single Mode	Single Mode	Single Mode	Single Mode	Multi Mode	Single Mode
Distance	2km	20km	40km	60km	120km	2km	20km
Wavelength (nm)	1310nm	1310nm	1310nm	1310nm	1550nm	1310nm	1550nm
Operating Temp.	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	-40~85°C	-40~85°C

Fast Ethernet Transceivers (100BASE-BX, Single Fiber Bi-Directional SFP)

Model	MFB-FA20	MFB-FB20	MFB-TFA20	MFB-TFB20	MFB-TFA40	MFB-TFB40	MFB-TSA	MFB-TSB
Product Image								
Speed (Mbps)	100	100	100	100	100	100	100	100
Connector Interface	WDM(LC)	WDM(LC)	WDM(LC)	WDM(LC)	WDM(LC)	WDM(LC)	LC	LC
Fiber Mode	Single Mode	Single Mode	Single Mode	Single Mode	Multi Mode	Multi Mode	Multi Mode	Multi Mode
Distance	20km	20km	20km	20km	40km	40km	2km	2km
Wavelength (nm)	TX: 1310nm RX: 1550nm	TX: 1550nm RX: 1310nm						
Operating Temp.	0 ~ 60°C	0 ~ 60°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C

Gigabit Ethernet Transceivers (1000BASE-X/ Fiber Channel SFP)

Model	MGB-GT	MGB-SX	MGB-SX2	MGB-LX	MGB-L40	MGB-L80	MGB-L120	MGB-TGT	MGB-TSX	MGB-TSX2	MGB-TLX	MGB-TL40	MGB-TL80
Product Image													
Speed (Mbps)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Connector Interface	Copper	LC	LC	LC	LC	LC	LC	Copper	LC	LC	LC	LC	LC
Fiber Mode	-	Multi Mode		Single Mode			Single Mode		-	Multi Mode		Single Mode	
Distance	100m	550m	2km	20km	40km	80km	120km	100m	550m	2km	20km	40km	80km
Wavelength (nm)	-	850nm	1310nm	1310nm	1310nm	1550nm	1550nm	-	850nm	1310nm	1310nm	1310nm	1550nm
Operating Temp.	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C

Gigabit Ethernet Transceivers (1000BASE-BX, Single Fiber Bi-Directional SFP)

Model	MGB-LA10	MGB-LB10	MGB-LA20	MGB-LB20	MGB-LA40	MGB-LB40	MGB-LA80	MGB-LB80	MGB-TSA
Product Image									
Speed (Mbps)	1000	1000	1000	1000	1000	1000	1000	1000	1000
Connector Interface	WDM(LC)	Simplex LC/UPC							
Fiber Mode	Single Mode	Single Mode	Single Mode	Single Mode	Single Mode	Single Mode	Single Mode	Single Mode	Single-mode
Distance	10km	10km	20km	20km	40km	40km	80km	80km	10km
Wavelength (TX)	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm
Wavelength (RX)	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm
Operating Temp.	0 ~ 60°C	-40~85°C							

Gigabit Ethernet Transceivers (1000BASE-BX, Single Fiber Bi-Directional SFP)

Model	MGB-TSB	MGB-TLA10	MGB-TLB10	MGB-TLA20	MGB-TLB20	MGB-TLA40	MGB-TLB40	MGB-TLA80	MGB-TLB80
Product Image									
Speed (Mbps)	1000	1000	1000	1000	1000	1000	1000	1000	1000
Connector Interface	Simplex LC/UPC	WDM(LC)							
Fiber Mode	Single-mode	Single Mode							
Distance	10km	10km	10km	20km	20km	40km	40km	80km	80km
Wavelength (TX)	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm
Wavelength (RX)	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm
Operating Temp.	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C

Gigabit Ethernet Transceivers (2500BASE-X, SFP)

Model	MGB-2GSR	MGB-2GLR2	MGB-2GLR20	MGB-2GLA20	MGB-2GLB20	MGB-2GTSR	MGB-2GTLR2	MGB-2GTLR20	MGB-2GTLA20	MGB-2GTLB20
Product Image										
Speed (Mbps)	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
Connector Interface	Dual LC/UPC			Simplex LC/UPC		Dual LC/UPC	Duplex LC/UPC		Simplex LC/UPC	
Fiber Mode	Multi-mode	Single Mode		Single Mode		Multi-mode	Single Mode		Single Mode	
Distance	300m	2km	20km	20km	20km	300m	2km	20km	20km	20km
Wavelength (nm)	850nm	1310nm	1310nm	TX:1310nm RX:1550nm	TX:1550nm RX:1310nm	850nm	1310nm	1310nm	TX:1310nm RX:1550nm	TX:1550nm RX:1310nm
Operating Temp.	0~70°C	0~70°C	0~70°C	0~70°C	0~70°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C

10Gbps SFP+ (10G Ethernet/10GBASE)

Model	MTB-RJ	MTB-SR	MTB-SR2	MTB-LR	MTB-LR20	MTB-LR40	MTB-LR60	MTB-LR80	MTB-LA10	MTB-LB10	MTB-LA20
Product Image											
Speed (Mbps)	10G	10G	10G	10G	10G	10G	10G	10G	10G	10G	10G
Connector Interface	RJ45	LC	LC	LC	LC	LC	LC	LC	WDM(LC)	WDM(LC)	WDM(LC)
Fiber Mode	-	Multi Mode	Single Mode	Single Mode		Single Mode		Single Mode		Single Mode	
Distance	300m	Up to 300m	Up to 2km	10km	20km	40km	60km	80km	10km	10km	20km
Wavelength (nm)	-	850nm	1310nm	1310nm	1310nm	1310nm	1550nm	1550nm	TX:1270nm RX:1330nm	TX:1330nm RX:1270nm	TX:1270nm RX:1330nm
Operating Temp.	0 ~ 70°C	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C

10Gbps SFP+ (10G Ethernet/10GBASE)

Model	MTB-LB20	MTB-LA40	MTB-LB40	MTB-LA60	MTB-LB60	MTB-LA70	MTB-LB70	MTB-TSR	MTB-TSR2	MTB-TLR
Product Image										
Speed (Mbps)	10G	10G	10G	10G						
Connector Interface	WDM(LC)	LC	LC	LC						
Fiber Mode	Single Mode			Single Mode		Single Mode		Multi Mode	Single Mode	
Distance	20km	40km	40km	60km	60km	70km	70km	Up to 300m	Up to 2km	10km
Wavelength (nm)	TX:1330nm RX:1270nm	TX:1270nm RX:1330nm	TX:1330nm RX:1270nm	TX:1270nm RX:1330nm	TX:1330nm RX:1270nm	TX:1270nm RX:1330nm	TX:1330nm RX:1270nm	850nm	1310nm	1310nm
Operating Temp.	0 ~ 60°C	-40~85°C	-40~85°C	-40~85°C						

10Gbps SFP+ (10G Ethernet/10GBASE)

Model	MTB-TLR20	MTB-TLR40	MTB-TLR60	MTB-TLA20	MTB-TLB20	MTB-TLA40	MTB-TLB40	MTB-TLA60	MTB-TLB60
Product Image									
Speed (Mbps)	10G	10G	10G	10G	10G	10G	10G	10G	10G
Connector Interface	LC	LC	LC	WDM(LC)	WDM(LC)	WDM(LC)	WDM(LC)	WDM(LC)	WDM(LC)
Fiber Mode	Single Mode		Single Mode		Single Mode		Single Mode		
Distance	20km	40km	60km	20km	20km	40km	40km	60km	60km
Wavelength (nm)	1310nm	1310nm	1550nm	TX:1270nm RX:1330nm	TX:1330nm RX:1270nm	TX:1270nm RX:1330nm	TX:1330nm RX:1270nm	TX:1270nm RX:1330nm	TX:1330nm RX:1270nm
Operating Temp.	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C

100G QSFP28

40Gbps QSFP+ (40Ethernet/40GBASE)

25Gbps SFP28

Model	QSFP-100G-SR4	QSFP-100G-LR4	QSFP-40G-SR4	QSFP-40G-LR4	SFP28-25G-SR	SFP28-25G-LR	SFP28-25G-LA10	SFP28-25G-LB10
Product Image								
Speed (Mbps)	100G	100G	40G	40G	25G	25G	25G	25G
Connector Interface	MPO	LC	MPO	LC	LC	LC	LC	LC
Fiber Mode	Multi Mode	Single Mode	Multi Mode	Single Mode	Multi Mode	Single Mode	Single Mode	Single Mode
Distance	Up to 100m	10km	Up to 100m	10km	100m	10km	10km	10km
Wavelength (nm)	850nm	1310nm	850nm	1310nm	850nm	1310nm	TX:1270nm RX:1330nm	TX:1330nm RX:1270nm
Operating Temp.	0 ~ 60°C	0 ~ 60°C	0 ~ 70°C	0 ~ 70°C				



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