



LAN Switches & Power over Ethernet

Scalability, Flexibility, Reliable Power Solution



PLANET
Networking & Communication



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Managed Gigabit 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

Switch Function

- 2 – L2 Web Smart
- 3 – L2
- 4 – L2/L4
- 5 – L2+ w/static routing
- 6 – L3 with dynamic 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 – 802.3at PoE+
- PL – 802.3at PoE+/large power budget
- S – 100/1000BASE-x SFP slot

z: Port Type

- S – 100/1000BASE-X SFP slot
- C – TP/SFP Combo interface
- X – 10G SFP+

Layer 3 IPv6/IPv4 Routing Switches

Chassis Switch	
Model	XGS3-42000R

Product Image



Chassis Slots	Total Number of Slots	4 (2 Management Modules + 2 Standard Modules or 1 Management Module + 3 Standard Modules)
	Max. Management Module	2
	Max. Standard Module	3
	Management Module Redundancy	●
	Number of Power Supply Bays	2
Total Port Capacity	Max. 10G XFP Slot	12
	Max. 10/100/1000BASE-T	160
	Max. 1000BASE-SX/LX SFP Slot	96
Hardware Specifications	Switch Processing Scheme	Store-and-Forward
	Switching Capacity	432Gbps
	MAC Table	64K
	VLAN Table	4K
	ACL Table	16K max.
	Routing Table	IPv4 Protocol: 128K max. IPv6 Protocol: 64K max.
	Layer 3 Interface	500 max.
	Port Queues	8
	Jumbo Frame	9kbytes
	Dimensions (W x D x H)	440 x 421 x 266 mm
Power Input	AC: Input 100~240V, 50~60 Hz	
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	Routing Interface	Per VLAN
	IP Routing Protocol	RIPng, OSPFv3, BGP4+
Layer 2 Functions	Layer 3 Protocol	Configured Tunnels, ISATAP, CIDR
	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, up to 1K entries
	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

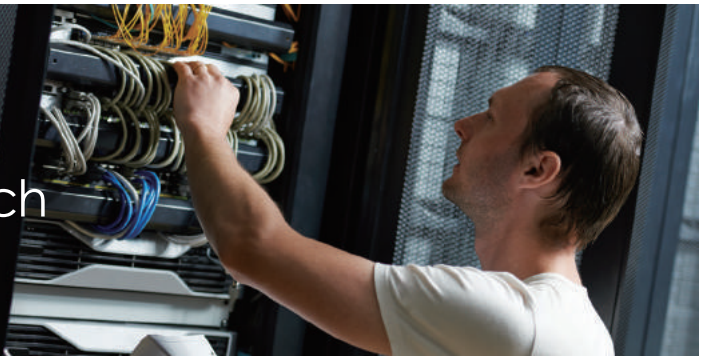
Gigabit/10G		
Model	XGS3-24042	XGS3-24242

Product Image



Hardware	10/100BASE-TX	-	-
	10/100/1000BASE-T	24	16 combo
	100/1000BASE-X SFP	4	24
	QSFP+ Stacking slots	-	2
	1/10G SFP+	4	4
	Switch Fabric	128Gbps	208Gbps
	MAC Table	16K	32K
	Jumbo Frame	9K	16K
	Memory Buffer	12Mbits	32Mbits
	Routing Interface	Per VLAN	Per VLAN
IP Routing	Static Routing	●	●
	RIP v1/v2	●	●
	OSPFv2	●	●
Multicast Routing	VRRP	●	●
	IGMP/DVMRP	●	●
	PIM-DM/SM	●	●
Interface	Port Configuration	●	●
	Port Mirror	TX & RX	TX & RX
Link Aggregation	Port Trunk	●	●
	LACP	●	●
VLAN	Port-based	●	●
	802.1Q VLAN	● / 4K	● / 4K
Spanning Tree	Protocol-based/GVRP	●	●
	802.1D/802.1w/802.1s	●	●
Multicast	IGMP Snooping	●	●
	802.1p Priority	● / 8 queues	● / 8 queues
	IP TOS/DSCP	●	●
Quality of Service	QoS Mode	Port-CoS, DSCP-CoS	Port-CoS, DSCP-CoS
	DiffServ Policy QoS	●	●
Data Control	Egress	●	●
Access	IP-based ACL	●	●
Control List	MAC-based ACL	●	●
Security	802.1x Port-based Authentication	●	●
	MAC Binding/Filtering	●	●
	Port Security	●	●
Management	Console	● / RJ45	● / RJ45
	Telnet	●	●
	Web Management	●	●
	SNMP	v1, v2c, v3	v1, v2c, v3
	RMON	1,2,3,9	1,2,3,9
	SSH/SSL	●	●
	Firmware Upgrade	●	●
Configuration Backup/Recovery	●	●	
Physical	Single IP Management	●	●
	Syslog	●	●
Physical	Dimensions (W x D x H)	440 x 350 x 44.5 mm	440 x 350 x 44.5 mm
	Power Supply	100~240V AC, -48 DC RPS	
	EMI/Safety	FCC Class A,CE	FCC Class A,CE

Layer 3 IPv6/IPv4 Routing Switch Modules & Accessories



Chassis Switch Modules & Accessories

Available Management Module

Model XGS3-M16C8S

Product Image



10/100/1000T	16 (Shared)
100/1000BASE-X SFP	24
Console	1 (RJ45)

Available Power Module

Model XGS3-PWR-AC

Product Image



Input Voltage	100~240V AC, 50/60Hz
Power Output	500 watts

Available Standard Modules

Model XGS3-S16C8S4X

XGS3-S48G

Product Image



10/100/1000T	16 (Shared)	48
100/1000BASE-X	24	-
1/10G SFP+	4	-

Rackmount Switch Modules & Accessories

10G SFP+ Directly Attached Copper Cable

Model CB-DASFP-0.5M CB-DASFP-2M

Product Image

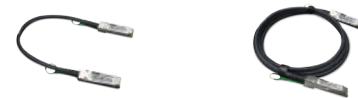


Speed (Gbps)	10G	10G
Connector Interface	Directly Attached Copper Cable	
Fiber Mode	-	-
Distance	Up to 0.5m	Up to 2m
Wavelength (nm)	-	-
Operating Temp.	0 ~ 60 °C	0 ~ 60 °C

QSFP+ Directly Attached Cable

Model CB-DAQSFP-0.5M CB-DAQSFP-2M

Product Image

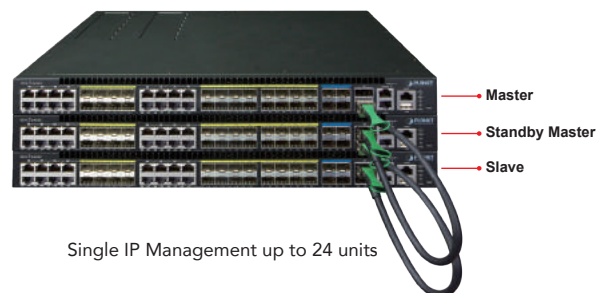


Speed (Gbps)	10G	10G
Connector Interface	Directly Attached Copper Cable	
Fiber Mode	-	-
Distance	Up to 0.5m	Up to 2m
Wavelength (nm)	-	-
Operating Temp.	0 ~ 60 °C	0 ~ 60 °C

▶ QSFP+ Hardware/Stacking









Two optional power modules for XGS3-24042/24242



Single IP Management up to 24 units

Layer 3 Enterprise Stackable Switches

		Gigabit/10G						
Model		SGS-6340-24T4S	SGS-6340-48T4S	SGS-6340-24P4S	SGS-6340-20S4C4X	SGS-6341-24T4X	SGS-6341-24P4X	
Product Image								
		PoE			PoE			
Hardware	10/100BASE-TX	-	-	-	-	-	-	
	10/100/1000BASE-T	24	48	24	4 combo	24	24	
	Mini-GBIC/SFP	4	4	4	24 (100X Compatible)	-	-	
	10G SFP+ Slot	-	-	-	4 (1000X Compatible)	4 (1000X Compatible)	4 (1000X Compatible)	
	PoE 802.3at Port	-	-	24	-	-	-	
	PoE Budget	-	-	370 watts	-	-	-	
	Switch Fabric	56Gbps	104Gbps	56Gbps	128Gbps	128Gbps	128Gbps	
	MAC Table	16K	16K	16K	16K	16K	16K	
	Jumbo Frame	9K	9K	9K	9K	9K	9K	
	Memory Buffer	1.5Mbytes	1.5Mbytes	1.5Mbytes	1.5Mbytes	1.5Mbytes	1.5Mbytes	
Layer 3 Features	IP Interfaces	128	128	128	128	128	128	
	Routing Tables	128	128	128	128	128	128	
	Routing Protocols	Static routing, RIP and OSPF			Static routing, RIP and OSPF			
	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	● / 256	● / 256	● / 256	● / 256	● / 256	● / 256	
	Q-in-Q VLAN	●	●	●	●	●	●	
	Private VLAN	●	●	●	●	●	●	
Spanning Tree	802.1D	●	●	●	●	●	●	
	802.1w	●	●	●	●	●	●	
	802.1s	●	●	●	●	●	●	
Rapid Data Recovery	E.R.P.S	-	-	-	-	-	-	
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	●	●	●	●	●	●	
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	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/SSL	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	
	Firmware Upgrade	FTP, TFTP	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 220 x 44 mm	442 x 280 x 44 mm	442 x 330 x 44 mm	442 x 220 x 44 mm	440 x 330 x 44 mm	440 x 330 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 -48~-60V DC	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 Plus IPv6/IPv4 Managed Gigabit Switches

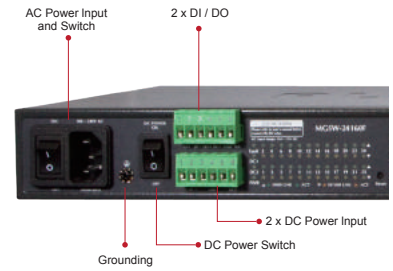
Metro Fiber Switches				
Model	MGSD-10080F	MGSW-24160F	MGSW-28240F	

Product Image



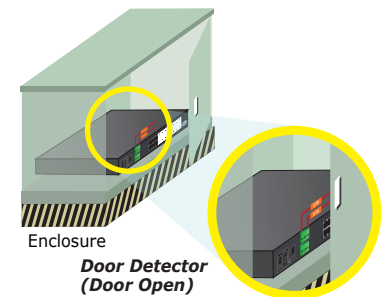
Hardware	10/100BASE-TX	-	-	-
	10/100/1000BASE-T	2	8	4 combo
	Mini-GBIC/SFP	8 (100FX Compatible)	16 (100FX Compatible)	24 (100FX Compatible)
	10G SFP+ Slot	-	-	4 (1000X Compatible)
	PoE 802.3at Port	-	-	-
	PoE Budget	-	-	-
	Switch Fabric	20Gbps	48Gbps	128Gbps
	MAC Table	8K	8K	32K
	Jumbo Frame	9K	9K	10K
	Memory Buffer	4Mbit	4Mbit	32Mbit
Layer 3 Features	IP Interfaces	8 VLAN	8 VLAN	128 VLAN
	Routing Tables	32	32	32
	Routing Protocols	IPv4/IPv6 Static Routing		
Interface	Hardware Accelerated	-	-	•
	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX, Both
Link Aggregation	Port Trunk	•	•	•
	LACP	•	•	•
VLAN	802.1Q VLAN	• / 256	• / 256	• / 256
	Q-in-Q VLAN	•	•	•
	Private VLAN	•	•	•
Spanning Tree	802.1D	•	•	•
	802.1w	•	•	•
	802.1s	•	•	•
Rapid Data Recovery	E.R.P.S	•	-	•
Multicast	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3
	MVR	•	•	•
Quality of Service	802.1p Priority	• / 4 queues	• / 4 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
	RMON	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9
	SSH/SSL	• / •	• / •	• / •
	Firmware Upgrade	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP
	Configuration Backup/Recovery	•	•	•
Single IP Management	-	-	-	
Physical	Syslog	•	•	•
	Dimensions (W x D x H)	330 x 155 x 43.5 mm	440 x 200 x 44 mm	440 x 200 x 44 mm
	Power Supply	100~240V AC, 50/60Hz -36V DC RPS	100~240V AC, 50/60Hz -36V DC RPS	100~240V AC, 50/60Hz -36V DC RPS
EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	

Fully Front Panel Access Design



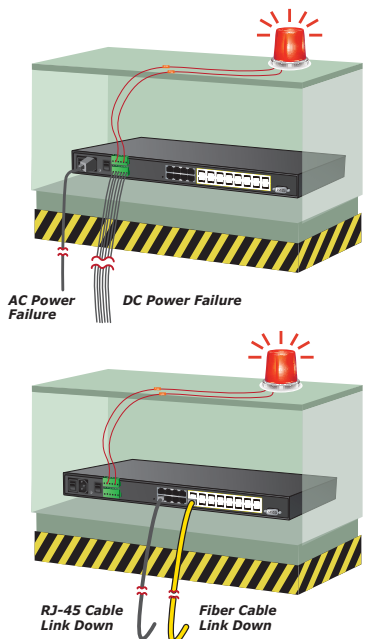
AC Power, DC Power, Digital I/O, and Network Access are all managed on the front panel.

Digital Input



Designed for intrusion and environment detection to protect the assets.

Digital Output



Designed for AC, DC, link alteration

Layer 2 Plus IPv6/IPv4 Managed Gigabit Switches

	Stackable			Standalone 10G				
Model	SGS-5220-24T2X	SGS-5220-24P2X	SGS-5220-24S2XR	GS-5220-48T4X	GS-5220-46S2C4X	GS-5220-20T4C4X GS-5220-20T4C4XR	GS-5220-16T4S2X GS-5220-16T4S2XR	





Product Image







PoE

Hardware	10/100BASE-TX	-	-	-	-	-	-	-	
	10/100/1000BASE-T	24	24	8 combo	48	2 combo	24	16	
	100/1000BASE-X SFP	4 combo	4 combo	24	4 combo	48	4 combo	4	
	10G SFP+ Slot	4 (2 for stacking)			4 (1000X compatible)		4 (1000X compatible)		2
	PoE 802.3at Port	-	24	-	-	-	-	-	
	PoE Budget	-	440W	-	-	-	-	-	
	Switch Fabric	128Gbps	128Gbps	128Gbps	176Gbps	176Gbps	128Gbps	80Gbps	
	MAC Table	16K	16K	16K	16K	16K	16K	16K	
	Jumbo Frame	10K	10K	10K	10K	10K	10K	10K	
	Memory Buffer	32Mbit	32Mbit	32Mbit	64Mbit	64Mbit	32Mbit	32Mbit	
Layer 3 Features	IP Interfaces	128 VLAN	128 VLAN	128 VLAN	128 VLAN	128 VLAN	128 VLAN	128 VLAN	
	Routing Tables	32	32	32	32	32	32	32	
	Routing Protocols	IPv4/IPv6 Static Routing			IPv4/IPv6 Static Routing		IPv4/IPv6 Static Routing		
	Hardware Accelerated	●	●	●	●	●	●	●	
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	● / 256	● / 256	● / 256	● / 256	● / 256	● / 256	● / 256	
	Q-in-Q VLAN	●	●	●	●	●	●	●	
	Private VLAN	●	●	●	●	●	●	●	
Spanning Tree	802.1D	●	●	●	●	●	●	●	
	802.1w	●	●	●	●	●	●	●	
	802.1s	●	●	●	●	●	●	●	
Rapid Data Recovery	E.R.P.S	-	-	-	-	-	-	●	
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	● / 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		
Data Control	DiffServ Policy QoS	●	●	●	●	●	●	●	
Access Control List	Ingress/Egress	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	
	IP-based	●	●	●	●	●	●	●	
Security	MAC-based	●	●	●	●	●	●	●	
	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	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/SSL	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	
	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 200 x 44 mm	440 x 300 x 44 mm	440 x 200 x 44 mm	440 x 300 x 44 mm	440 x 300 x 44 mm	440 x 200 x 44 mm	440 x 300 x 44 mm	
	Power Supply	100~240V AC, 50/60Hz		100~240V AC, 50/60 Hz 36~60V DC	100~240V AC, 50/60Hz		100~240V AC, 36~60V DC		
	EMI/Safety	FCC Class A, CE			FCC Class A, CE		FCC Class A, CE		

Layer 2 Plus IPv6/IPv4 Managed Gigabit Switches

Standalone					
Model	WGSD-10020	WGSW-24040/R	GS-5220-16S8C/R	GS-5220-44S4C	
Product Image					
Hardware	10/100BASE-TX	-	-	-	-
	10/100/1000BASE-T	8	24	8 combo	4 combo
	100/1000BASE-X SFP	2	4 combo	24	48
	10G SFP+ Slot	-	-	-	-
	PoE 802.3at Port	-	-	-	-
	PoE Budget	-	-	-	-
	Switch Fabric	20Gbps	48Gbps	48Gbps	96Gbps
	MAC Table	8K	16K	16K	16K
	Jumbo Frame	9K	9K	10K	10K
	Memory Buffer	4Mbit	4Mbit	16Mbit	16Mbit
Layer 3 Features	IP Interfaces	8 VLAN	8 VLAN	128 VLAN	128 VLAN
	Routing Tables	32	32	32	32
	Routing Protocols	IPv4/IPv6 Static Routing	IPv4/IPv6 Static Routing	IPv4/IPv6 Static Routing	IPv4/IPv6 Static Routing
	Hardware Accelerated	-	-	●	●
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	● / 256	● / 256
	Q-in-Q VLAN	●	●	●	●
	Private VLAN	●	●	●	●
Spanning Tree	802.1D	●	●	●	●
	802.1w	●	●	●	●
	802.1s	●	●	●	●
Rapid Data Recovery	E.R.P.S	-	-	-	-
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		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
	Telnet	●	●	●	●
	Web Management	●	●	●	●
	SNMP	v1, v2, v3	v1, v2, v3	v1, v2, v3	v1, v2, v3
	RMON	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9	1, 2, 3, 9
	SSH/SSL	● / ●	● / ●	● / ●	● / ●
	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	440 x 200 x 44 mm	440 x 300 x 44 mm
	Power Supply	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz 36~60V DC (R model only)		100~240V AC, 50/60Hz
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Layer 2 Plus IPv6/IPv4 Industrial Managed Gigabit Switches

Industrial					
Model	IGSW-24040T	IGS-5225-16T4S	IGS-5225-20T4C2X	IGS-5220-24P4S	
Product Image					
			10G	PoE	
Hardware	10/100BASE-TX	-	-	-	-
	10/100/1000BASE-T	24	16	24	24
	100/1000BASE-X SFP	4 combo	4	4 combo	4 combo
	10G SFP+ Slot	-	-	2 (1000X Compatible)	-
	PoE 802.3at Port	-	-	-	24
	PoE Budget	-	-	-	440W max.
	Switch Fabric	48Gbps	40Gbps	88Gbps	48Gbps
	MAC Table	8K	8K	8K	8K
	Jumbo Frame	9K	9K	9K	9K
	Memory Buffer	1392KB	1392KB	32M bits	4Mbit
Layer 3 Features	IP Interfaces	8	8	128	8 VLAN
	Routing Tables	32	32	32	32
	Routing Protocols	IPv4/IPv6 static routing	IPv4/IPv6 Static Routing	IPv4/IPv6 static routing	IPv4 / IPv6 Static Routing
	Hardware Accelerated	-	-	●	-
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	● / 256	● / 256
	Q-in-Q VLAN	●	●	●	●
	Private VLAN	●	●	●	●
Spanning Tree	802.1D	●	●	●	●
	802.1w	●	●	●	●
	802.1s	●	●	●	●
Rapid Data Recovery	E.R.P.S	●	-	●	-
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	
Rate Control	DiffServ Policy QoS	●	●	●	●
	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/SSL	● / ●	● / ●	● / ●	● / ●
	Firmware Upgrade	HTTP, TFTP	●	HTTP, TFTP	HTTP, TFTP
	Configuration Backup/Recovery	●	HTTP, TFTP	●	●
	Single IP Management	-	-	-	-
Syslog	●	●	●	●	
Physical	Dimensions (W x D x H)	440 x 200 x 44.5 mm	400 x 300 x 44mm	440 x 200 x 44.5 mm	440 x 300 x 44 mm
	Power Supply	100~240V AC, 50/60Hz Dual 36~60V DC	100~240V AC, 50/60Hz Dual 36~60V DC	100~240V AC, 50/60Hz Dual 36~60V DC	Dual 48~56V DC
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Layer 2 IPv6/IPv4 Managed Gigabit Switches

Standalone							
Model	GS-4210-48T4S	WGSW-28040	GS-4210-24T2S	GS-4210-16T2S	GSD-1020S	GSD-1002M	




Product Image










PoE PD

Hardware	10/100BASE-TX	-	-	-	-	-	-
	10/100/1000BASE-T	48	28	24	16	8	8
	Mini GBIC/SFP	4	4 Combo	2	2	2	2
	PoE 802.3af Port	-	-	-	-	-	-
	PoE 802.3at Port	-	-	-	-	-	-
	PoE Budget	-	-	-	-	-	-
	Switch Fabric	104Gbps	56Gbps	52Gbps	36Gbps	20Gbps	20Gbps
	MAC Table	16K	8K	8K	8K	8K	8K
	Jumbo Frame	9K	9K	9K	9K	9K	9K
	Memory Buffer	4Mbit	4Mbit	4Mbit	4Mbit	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
Link Aggregation	Port Trunk	●	●	●	●	●	●
	LACP	●	●	●	●	●	●
VLAN	Port-based	-	-	-	-	-	-
	802.1Q VLAN	● / 256	● / 256	● / 256	● / 256	● / 256	● / 256
	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	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					
	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	● / RJ45	-	-
	Telnet	●	●	●	●	●	●
	Web Management	●	●	●	●	●	●
	SNMP	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2, v3	v1, v2, 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/SSL	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●
	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	440 x 300 x 44 mm	440 x 207 x 44mm	440 x 207 x 44 mm	217 x 135 x 43.5 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	100~240V AC, 50/60Hz	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	FCC Class A, CE	FCC Class A, CE

Layer 2 Web Smart Switches / Layer2/4 Managed Switches

		Standalone		Standalone
Model		GS-2240-24T4X	GS-2240-48T4X	FGSW-2840
Product Image				
Hardware	10/100BASE-TX	-	-	24
	10/100/1000BASE-T	24	48	4
	Mini-GBIC/SFP	-	-	2 combo
	10G SFP+ Slot	4 (1000X Compatible)	4 (1000X Compatible)	-
	PoE 802.3at Port	-	-	-
	PoE Budget	-	-	-
	Switch Fabric	128Gbps	176Gbps	12.8Gbps
	MAC Table	16K	16K	8K
	Jumbo Frame	13K	13K	9K
Memory Buffer	1.5Mbytes	1.5Mbytes	2.5Mbit	
Interface	Port Configuration	●	●	●
	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX
Link Aggregation	Port Trunk	●	●	●
	LACP	●	●	●
VLAN	Port-based	-	-	-
	802.1Q VLAN	● / 4K	● / 4K	● / 512
	Q-in-Q VLAN	-	-	-
Spanning Tree	Private VLAN	●	●	-
	802.1D	●	●	●
	802.1w	●	●	●
Multicast	802.1s	●	●	●
	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3
Quality of Service	MVR	-	-	-
	802.1p Priority	-	-	● / 4 queues
	Priority Mode	-	-	Strict/WRR
	IP TOS/DSCP	-	-	●
	QoS Mode	-	-	Port-CoS, DSCP-CoS
Data Control	DiffServ Policy QoS	-	-	-
Access Control List	Ingress/Egress	● / ●	● / ●	● / ●
	IP-based	-	-	●
Security	MAC-based	-	-	●
	802.1x Port-based Authentication	-	-	-
	MAC Binding	●	●	●
	MAC Filtering	●	●	●
Management	Port Security	-	-	●
	IPV6/IPV4	- / ●	- / ●	- / ●
	Console	● / RJ45	● / RJ45	-
	Telnet	●	●	●
	Web Management	●	●	●
	SNMP	v1, v2c	v1, v2c	v1, v2c, v3
	RMON	-	-	1, 2, 3, 9
	SSH/SSL	- / -	- / -	● / ●
	Firmware Upgrade	HTTP	HTTP	HTTP
	Configuration Backup/Recovery	HTTP	HTTP	● / HTTP
Single IP Management	-	-	-	
Syslog	●	●	●	
Physical	Dimensions (W x D x H)	440 x 230 x 44mm	440 x 270 x 44mm	440 x 180 x 44mm
	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

19-inch Rack-mountable Switches

		Fast Ethernet				Gigabit		
Model	FNSW-1601	FNSW-2401	FNSW-4800	FGSW-2620	GSW-1601	GSW-2401	GSW-4800	
Product Image								
Hardware	10/100BASE-TX	16	24	48	24	-	-	-
	10/100/1000BASE-T	-	-	-	2	16	24	48
	Switch Fabric	3.2Gbps	4.8Gbps	8.8Gbps	8.8Gbps	32Gbps	48Gbps	96Gbps
	MAC Table	8K	8K	8K	8K	8K	8K	16k
	Jumbo Frame	-	-	-	-	9K	9K	10M
Interface	Memory Buffer	1.25Mbits	1.25Mbits	2.5Mb	2.75Mb	built-in	built-in	1.5Mb
	Auto-negotiation	●	●	●	●	●	●	●
Physical	Dimensions (W x D x H)	440 x 180 x 44 mm	441 x 180 x 44 mm	440 x 260 x 44 mm	440 x 180 x 45 mm	440 x 180 x 45 mm	440 x 180 x 45 mm	440 x 220 x 44 mm
	Power Supply	100~240V AC, Universal Power Supply				100~240V AC, Universal Power Supply		
	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
	Material	Metal	Metal	Metal	Metal	Metal	Metal	Metal
	Rack-mountable	●	●	●	●	●	●	●

SOHO/Home Switches

		Fast Ethernet		
Model	SW-504/FSD-503	SW-804/FSD-803	FSD-805SC / FSD-805ST	
Product Image				
Hardware	10/100BASE-TX	5	8	8
	10/100/1000BASE-T	-	-	-
	PoE 802.3af Port	-	-	-
	PoE Budget	-	-	-
	Switch Fabric	1 Gbps	1.6 Gbps	1.6Gbps
	MAC Table	1K/2K	1K/2K	2K
	Jumbo Frame	-	-	-
Interface	Memory Buffer	384Kb	768Kb/448Kb	1Mb
	Auto-negotiation	●	●	●
Physical	802.3x Flow Control	●	●	●
	Dimensions (W x D x H)	184 x 110 x 30 mm/ 160 x 80 x 28 mm	184 x 110 x 30 mm/ 160 x 80 x 28 mm	191 x 85 x 26 mm
	Power Supply	9V DC, 700mA/ 12V DC, 500mA	9V DC, 700mA/ 12V DC, 500mA	100~240V AC
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE
	Material	Plastic/Metal	Plastic/Metal	Metal
Rack-mountable	-	-	-	

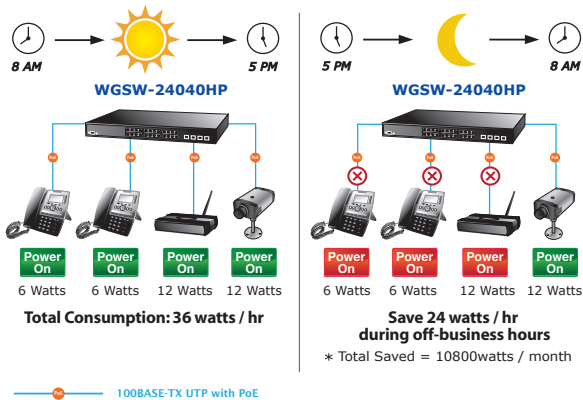
		Gigabit					
Model	GSD-503/GSD-504	GSD-803/GSD-804	GSD-805	GSD-803PD	GSD-1603	WGS-803	
Product Image							
Hardware	10/100BASE-TX	-	-	-	-	-	
	10/100/1000BASE-T	5	8	8	8	16	8
	PoE 802.3af Port	-	-	-	-	-	-
	PoE Budget	-	-	-	-	-	-
	Switch Fabric	10Gbps	16Gbps	16Gbps	16Gbps	32Gbps	16Gbps
	MAC Table	8K	8K	8K	8K	8K	8K
	Jumbo Frame	9K	9K	9K	9K	9216Bytes	9K
	Memory Buffer	1Mb	1Mb	1Mb	Built-in SRAM	Integrated SRAM for packet buffer	1Mb
Interface	Auto-negotiation	●	●	●	●	●	●
	802.3x Flow Control	●/●	●/●	●	●	●	●
Physical	Dimensions (W x D x H)	155 x 86 x 26 mm/ 176 x 106 x 30 mm	155 x 86 x 26 mm/ 176 x 106 x 30 mm	191 x 85 x 26 mm	155 x 86 x 26 mm	155 x 118 x 46 mm	148 x 25 x 134 mm
	Power Supply	12V DC, 500mA/ 12V DC, 1000mA	12V DC, 1000mA	Internal Power	5V DC, 802.3af/at PoE	12V DC, 1A	12V~48V DC
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Part 15, Class B, CE	FCC Class A, CE
	Material	Metal/Plastic	Metal/Plastic	Metal	Metal	Metal	Metal
	Rack-mountable	-	-	-	-	-	-

Power over Ethernet

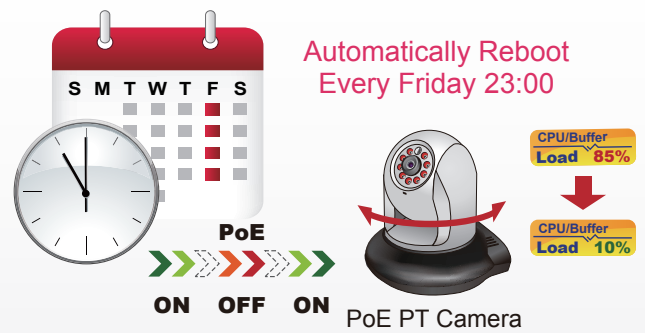


Intelligent PoE Management

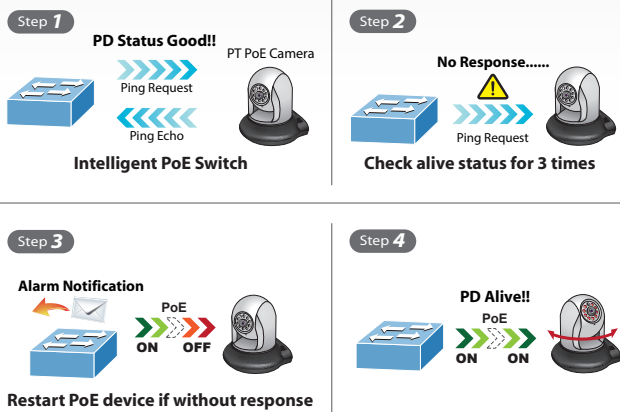
PoE Schedule for Energy Saving



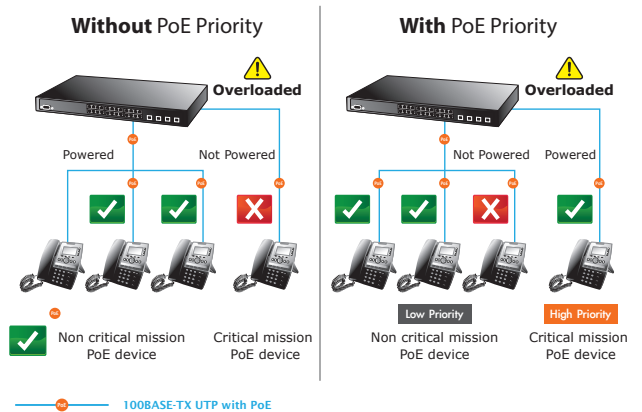
Scheduled Power Recycling



PoE PD Alive-checking



PoE Priority for Critical Services



Layer 2 Plus IPv6/IPv4 Managed Gigabit Ultra PoE Switches








PoE/PoE+				
Model	GS-5220-16UP4S2X GS-5220-16UP4S2XR	GS-5220-24UP4X GS-5220-24UP4XR	GS-5220-24UPL4X GS-5220-24UPL4XR	GS-5220-24UP4XV GS-5220-24UP4XVR

Product Image









10/100BASE-TX	10/100BASE-TX	-	-	-	-
	10/100/1000BASE-T	16	24	24	24
	1000BASE-X SFP	4	4 combo	4 combo	-
	10G SFP+ Slot	2	4	4	4
	PoE 802.3bt Port	16, up to 60W per port	24, up to 60W per port	24, up to 60W per port	24, up to 60W per port
	PoE Budget	400W	400W	600W	400W
	Switch Fabric	80Gbps	128Gbps	128Gbps	128Gbps
	MAC Table	16K	16K	16K	16K
Layer 3 Features	Jumbo Frame	10K	10K	10K	10K
	Memory Buffer	32Mbit	32Mbit	32Mbit	32Mbit
	IP Interfaces	128 VLAN	128 VLAN	128 VLAN	128 VLAN
	Routing Tables	32	32	32	32
Interface	Routing Protocols	IPv4/IPv6 Static Routing	IPv4/IPv6 Static Routing	IPv4/IPv6 Static Routing	IPv4/IPv6 Static Routing
	Hardware Accelerated	●	●	●	●
Link Aggregation	Port Mirror	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both
	Port Trunk	●	●	●	●
VLAN	LACP	●	●	●	●
	802.1Q VLAN	● / 256	● / 256	● / 256	● / 256
	Q-in-Q VLAN	●	●	●	●
Spanning Tree	Private VLAN	●	●	●	●
	802.1D	●	●	●	●
	802.1w	●	●	●	●
Rapid Data Recovery	802.1s	●	●	●	●
	E.R.P.S	-	-	-	-
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	Port-CoS, DSCP-CoS, L4 Port-CoS	Port-CoS, DSCP-CoS, L4 Port-CoS
Rate Control	DiffServ Policy Qos	●	●	●	●
	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/SSL	● / ●	● / ●	● / ●	● / ●
	Firmware Upgrade	●	●	●	●
	Configuration Backup/ Recovery	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP
	Single IP Management	-	-	-	-
Physical	Syslog	●	●	●	●
	Dimensions (W x D x H)	400 x 300 x 44mm	400 x 300 x 44mm	400 x 300 x 44mm	440 x 300 x 56mm
Regulator	Power Supply	100~240V AC, 50/60Hz 36~60V DC (R model only)	100~240V AC, 50/60Hz 36~60V DC (R model only)	100~240V AC, 50/60Hz 36~60V DC (R model only)	100~240V AC, 50/60Hz 36~60V DC (R model only)
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE








Layer 2 60W Ultra Power PoE Series

Managed Switches					
Model	GS-4210-16UP4C	GS-4210-24UP4C	IGS-5225-4UP1T2S	GSW-1222VUP	
Product Image					
					
Hardware	10/100BASE-TX	-	-	-	-
	10/100/1000BASE-T	16	24	5	10
	1000BASE-SX/LX	4 SFP	4 SFP	2 SFP	2
	10G BASE-SR/LR	-	-	-	-
	Switch Fabric	40Gbps	56Gbps	14Gbps	24Gbps/non-blocking
	Throughput	29.79Mpps	41.66Mpps	10.41Mpps	17.8Mpps@64Bytes
PoE Spec.	PoE Standard	Ultra PoE,802.3bt (802.3at Compliant)	Ultra PoE,802.3bt (802.3at Compliant)	Ultra PoE,802.3bt (802.3at Compliant)	IEEE 802.3af/802.3at/ Ultra PoE PSE
	PSE Type	Mid-span + End-span	Mid-span + End-span	Mid-span + End-span	End-span + Mid-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(-)	Ultra PoE: 1/2 (+), 3/6 (-), 4/5 (+), 7/8 (-) End-span: 1/2 (+), 3/6 (-) Mid-span: 4/5 (+), 7/8 (-)
PoE Ability	PoE Port	16	24	4	8
	PoE Power Output	52V DC, 60 watts max.	52V DC, 60 watts max.	48-56V DC, 60 watts max.	54V DC, 60 watts max.
	PoE Budget	400 watts max.	600 watts max.	240 watts max.	380 watts (max.)
	Number of Class 2 PD @ 6.5 watts	16	24	4	8 (15W PD)
	Number of Class 3 PD @ 12.9 watts	16	24	4	8 (30W PD)
Number of Class 4 PD @ 25 watts	16	24	4	6 (60W PD)	
Intelligent PoE Control	Over Temperature Protection	●	●	●	●
	PD Alive Check	●	●	●	-
	PoE Schedule	●	●	●	-
	Power Limit	●	●	●	-
	Scheduled Power Recycling	●	●	●	-
	PoE Classification	●	●	●	-
	PoE Event/Threshold Trap	-	-	●	-
Protocols	VLAN	802.1Q, Q-in-Q, Voice VLAN, Private VLAN	802.1Q, Q-in-Q, Voice VLAN, Private VLAN	802.1Q, Q-in-Q, Voice VLAN, Private VLAN	-
	Spanning Tree	802.1D/802.1w/802.1s	802.1D/802.1w/802.1s	802.1D/802.1w/802.1s	-
	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3	-
Management	Interface	Console, Telnet, HTTP	Console, Telnet, HTTP	Console, Telnet, HTTP	-
	SNMP	v1, v2c, v3, trap	v1, v2c, v3, trap	v1, v2c, v3, trap	-
	SSH/SSL	● / ●	● / ●	● / ●	-
Physical	Dimensions (W x D x H)	440 x 300 x 44mm	440 x 300 x 44mm	75.7 x 107.2 x 152mm	440 x 233 x 44 mm, 1U height
	Power Requirements	100-240V AC, 50/60Hz	100-240V AC, 50/60Hz	Dual 48V-56V DC	100-240V AC, 50/60Hz, 6A max.
	Operating Temperature	0-50 degrees C	0-50 degrees C	-40-75 degrees C	0 ~ 50 degrees C
Regulator	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Part 15 Class A, CE

Layer 2 Plus IPv6/IPv4 Managed Gigabit PoE+ Switches

Standalone PoE/PoE+							
Model	WGSD-10020HP	GS-5220-8P2T2S	WGSW-20160HP	WGSW-24040HP/HP4	GS-5220-24P4X GS-5220-24PL4X	WGSW-48040HP	
Product Image							
					10G		
Hardware	10/100BASE-TX	-	-	-	-	-	-
	10/100/1000BASE-T	8	8	20	24	24	48
	100/1000BASE-X SFP	2	2	4 combo	4 combo	4 combo	4 combo
	10G SFP+ Slot	-	-	-	-	4	-
	PoE 802.3at Port	8	8	16	24	24	48
	PoE Budget	150W	240W	230W	HP : 220W HP4 : 440W	400W / 600W	600W
	Switch Fabric	20Gbps	24Gbps	40Gbps	48Gbps	128Gbps	96Gbps
	MAC Table	8K	8K	8K	8K	16K	16K
	Jumbo Frame	9K	9K	9K	9K	10K	10K
	Memory Buffer	4Mbit	1392KB	4Mbit	4Mbit	32Mbit	16Mbit
Layer 3 Features	IP Interfaces	8 VLAN	8 VLAN	8 VLAN	8 VLAN	128 VLAN	128 VLAN
	Routing Tables	32	32	32	32	32	32
	Routing Protocols	IPv4/IPv6 Static Routing			IPv4/IPv6 Static Routing		
	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	● / 256	● / 256	● / 256	● / 256	● / 256	● / 256
	Q-in-Q VLAN	●	●	●	●	●	●
	Private VLAN	●	●	●	●	●	●
Spanning Tree	802.1D	●	●	●	●	●	●
	802.1w	●	●	●	●	●	●
	802.1s	●	●	●	●	●	●
Rapid Data Recovery	E.R.P.S	-	-	-	-	-	-
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	● / 4 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/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	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/SSL	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●
	Firmware Upgrade	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	HTTP, TFTP	●	HTTP, TFTP
	Configuration Backup/Recovery	●	●	●	●	HTTP, TFTP	●
	Single IP Management	-	-	-	-	-	-
Syslog	●	●	●	●	●	●	
Physical	Dimensions (W x D x H)	330 x 155 x 43.5 mm	330 x 200 x 43.5 mm	440 x 300 x 44 mm	440 x 300 x 44 mm	400 x 300 x 44mm	440 x 440 x 44 mm
	Power Supply	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/PoE+							
Model	GS-4210-48P4S	GS-4210-24P4C GS-4210-24PL4C	GS-4210-24P2S	GS-4210-16P4C	GS-4210-16P2S	GS-4210-8P2T2S	GS-4210-8P2S		
Product Image									
Hardware	10/100BASE-TX	-	-	-	-	-	-	-	
	10/100/1000BASE-T	48	28	24	20	16	10	8	
	Mini-GBIC/SFP	4	4 Combo	2	4 Combo	2	2	2	
	PoE 802.3af Port	-	-	-	-	-	-	-	
	PoE 802.3at Port	48	24	24	16	16	8	8	
	PoE Budget	440W	P : 220W PL : 440W	300W	220W	220W	240W	120W	
	Switch Fabric	104Gbps	56Gbps	52Gbps	40Gbps	36Gbps	24Gbps	20Gbps	
	MAC Table	16K	8K	8K	8K	8K	8K	8K	
	Jumbo Frame	9K	9K	9K	9K	9K	9K	9K	
	Memory Buffer	4Mbit	4Mbit	4Mbit	4Mbit	4Mbit	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	●	●	●	●	●	●	●	
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	● / 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			
	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	● / RJ45	● / RJ45	● / RJ45	● / RJ45	
	Telnet	●	●	●	●	●	●	●	
	Web Ma-gement	●	●	●	●	●	●	●	
	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/SSL	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	
	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 300 x 44 mm	440 x 207 x 44 mm	440 x 300 x 44 mm	440 x 207 x 44 mm	330 x 200 x 44 mm	330 x 155 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	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	FCC Class A, CE	

Layer 2 Web Smart Fast Ethernet PoE/PoE+ Switches







	PoE			PoE+			
Model	FSD-804PS	FNSW-2400PS	FGSD-1008HPS	FGSW-1816HPS	FGSW-2624HPS	FGSW-2624HPS4	

Product Image



Hardware	10/100BASE-TX	8	24	8	16	24	24
	10/100/1000BASE-T	-	-	2	2	2	2
	Mini-GBIC/SFP	-	-	2 combo	2 combo	2 combo	2 combo
	PoE 802.3af Port	4	24	-	16	-	-
	PoE 802.3at Port	-	-	8	16	24	24
	PoE Budget	55W	125W	120W	220W	220W	440W
	Switch Fabric	1.6Gbps	4.8Gbps	5.6Gbps	7.2Gbps	8.8Gbps	8.8Gbps
	MAC Table	2K	8K	4K	4K	4K	4K
	Jumbo Frame	-	-	-	-	-	-
	Memory Buffer	768K Bytes	1.75Mb	2.75Mb	2.75Mb	2.75Mb	2.75Mb
Interface	Auto-negotiation	●	●	●	●	●	●
	802.3x Flow Control	●	●	●	●	●	●
	Port Configuration	●	●	●	●	●	●
	Port Mirror	-	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both	TX, RX, Both
Link Aggregation	Static Port Trunk	-	●	●	●	●	●
	802.3ad LACP	-	●	●	●	●	●
VLAN	Port-based VLAN	●	●	●	●	●	●
	802.1Q VLAN	● / 8	● / 32	● / 32	● / 32	●	32
Spanning Tree Protocol	802.1D STP	-	●	●	●	●	●
	802.1w RSTP	-	●	●	●	●	●
Multicast	IGMP Snooping	-	v1, v2	v1, v2	v1, v2	v1, v2	v1, v2
Quality of Service	802.1p Priority	● / 2 queues	● / 2 queues	● / 2 queues	● / 2 queues	●	2 queues
	DSCP	●	●	●	●	●	●
	Priority Mode	WRR	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR	Strict/WRR
	QoS Mode	Port-CoS	Port-CoS,IP ToS	Port-CoS, IP ToS	Port-CoS,IP ToS	Port-CoS,IP ToS	Port-CoS,IP ToS
Data Control	Ingress	●	●	●	●	●	●
	Egress	●	●	●	●	●	●
Access Control List	IP-based	-	-	-	-	-	-
Security	802.1x Port-based Authentication	-	-	-	-	-	-
	Static MAC	-	●	●	●	●	●
	MAC Filter	-	●	●	●	●	●
	IP Filter	-	●	-	-	-	-
Management	Console	-	-	-	-	-	-
	Web Management	●	●	●	●	●	●
	SNMP	-	v1	Trap	Trap	Trap	Trap
	Management Utility	●	-	●	●	●	●
	Firmware Upgrade	HTTP	HTTP	HTTP	HTTP	HTTP	HTTP
	Cable Diagnostic	-	-	-	-	-	-
Physical	Dimensions (W x D x H)	217 x 135 x 43 mm	440 x 207 x 45 mm	330 x 155 x 44mm	440 x 200 x 44 mm	440 x 300 x 44mm	440 x 300 x 44mm
	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

LCD PoE Switches

		Fast Ethernet PoE/PoE+			Gigabit PoE/PoE+		
Model		FGSD-1022VHP	FGSW-1822VHP	FGSW-2622VHP	GSD-1002VHP	GSW-1820VHP	GSW-2620VHP
Product Image							
Hardware	10/100BASE-TX	8	16	24	-	-	-
	10/100/1000BASE-T	2	2	2	10	16	24
	Mini-GBIC/SFP	-	-	-	-	2	2
	PoE 802.3af/at Port	8	16	24	8	16	24
	PoE Budget	120W (max.)	220W (max.)	300W (max.)	120 watts	300 watts	300 watts
	Switch Fabric	5.6Gbps	7.2Gbps	8.8Gbps	20Gbps	36Gbps	52Gbps
	MAC Table	4K	4K	4K	8K/8K	8K	8K
	Jumbo Frame	-	-	-	9K	9K	9K
	Memory Buffer	2.75Mbits	2.75Mbits	2.75Mbits	4.1Mb	4.1Mb	4.1Mb
Interface	Auto-negotiation	•	•	•	•	•	•
	802.3x Flow Control	•	•	•	•	•	•
Physical	Dimensions (W x D x H)	280 x 180 x 44mm	440 x 230 x 44mm	440 x 230 x 44mm	280 x 180 x 44	440 x 233 x 44	440 x 233 x 44
	Power Supply	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz	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
	Material	Metal	Metal	Metal	Metal	Metal	Metal
	Rack mountable	•	•	•	•	•	•

LCD PoE Switches



PoE Port Status

```

P01:12.0W  P05:18.0W
P02: 8.0W  P06:----
P03: ULP   P07:13.0W
P04: OLP   P08: 5CP
PB:120W    Total: 51W
            
```

PoE Port Status

WARNING!

Main supply voltage is high!

All ports are shut down.

Power Over-voltage Protection

WARNING!

Main supply voltage is low!

All ports are shut down.

Power Low-voltage Protection






WARNING!





The PSE device is too hot!

All ports are shut down.


Power Over Temperature Protection

Unmanaged PoE/PoE+ Switches


Fast Ethernet PoE/PoE+						
Model	FSD-504HP	FSD-804P	FSD-808HP	FGSD-910HP	FNSW-1600P	
Product Image						
Hardware	10/100BASE-TX	5	8	8	8	16
	10/100/1000BASE-T	-	-	-	1	-
	PoE 802.3af/at Port	4 (802.3at)	4 (802.3at)	8 (802.3at)	8 (802.3at)	16
	PoE Budget	60W	55W	140W	120W	125W
	Switch Fabric	1Gbps	1.6Gbps	1.6Gbps	3.6Gbps	3.2Gbps
	MAC Table	1K	2K	2K	2K	8K
	Jumbo Frame	-	-	-	-	-
	Memory Buffer	384K Bytes	768K Bytes	1Mb	1Mb	2Mb
Interface	Auto-negotiation	●	●	●	●	●
	802.3x Flow Control	●	●	●	●	●
Physical	Dimensions (W x D x H)	100 x 100 x 26 mm	217 x 135 x 44 mm	280 x 180 x 43 mm		440 x 207 x 45 mm
	Power Supply	51V DC, 1.25A	100~240V AC	100~240V AC	100~240V AC	100~240V AC
	EMI/Safety	FCC Class A, CE				
	Material	Metal	Metal	Metal	Metal	Metal
	Rack mountable	-	Optional Kit	●	●	●





Gigabit PoE+						
Model	GSD-804P	GSD-604HP	GSD-808HP	GSD-908HP	GSW-1600HP GSW-2620HP	
Product Image						
Hardware	10/100BASE-TX	-	-	-	-	-
	10/100/1000BASE-T	8	6	8	9	16/24
	Mini-GBIC/SFP	-	-	-	-	-/2
	PoE 802.3at Port	4	4	8	8	16/24
	PoE Budget	55W	120W	130w	120W	220W/220W
	Switch Fabric	16Gbps	12Gbps	16Gbps	18Gbps	32Gbps/52Gbps
	MAC Table	8K	8K	8K	4K	8K/8K
	Jumbo Frame	9K	9K	9K	9K	9K
Memory Buffer	1Mb	1Mb	1Mb	192K bytes	4.1Mb	
Interface	Auto-negotiation	●	●	●	●	●
	802.3x Flow Control	●	●	●	●	●
Physical	Dimensions (W x D x H)	217 x 135 x 43 mm	160 x 92.5 x 28 mm	280 x 180 x 43 mm	103 x 23 x 27 mm	445 x 207 x 44 mm
	Power Supply	100~240V AC	55V DC	100~240V AC	51V DC	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	Optional kit	-	●	-	● / ●

60-watt Ultra Power PoE Injector Hubs

Managed Injector Hubs				
Model	UPOE-800G	UPOE-1600G	UPOE-2400G	
Product Image				
Hardware	RJ45 Data Input Ports	8	16	24
	RJ45 Data + Power Output Ports	8	16	24
	Pass-through Data Rate	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps
PoE Spec.	PoE Standard	Ultra PoE,802.3bt (802.3at Compliant)	Ultra PoE,802.3bt (802.3at Compliant)	802.3bt, Ultra PoE (802.3at Compatible)
	PSE Type	Mid-span + End-span	Mid-span + End-span	End-span+Mid-span/ End-span/Mid-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	8	16	24
	PoE Power Output	52V DC, 60 watts max.	52V DC, 60 watts max.	54V DC, 60 watts max.
	PoE Budget	440 watts max.	600 watts max.	800 watts max.
	Number of Class 2 PD @ 6.5 watts	8	16	24
	Number of Class 3 PD @ 12.9 watts	8	16	24
	Number of Class 4 PD @ 25 watts	8	16	24
Intelligent PoE Control	Over Temperature Protection	●	●	●
	PD Alive Check	-	-	●
	PoE Schedule	●	●	●
	Power Limit	●	●	●
	PoE Priority	●	●	●
	PoE Classification	●	●	●
	PoE Event/Threshold Trap	●	●	●
Management	Interface	HTTP	HTTP	HTTP
	SNMP	v1, v2, trap	v1, v2, trap	v1,v2, trap
Physical	Dimensions (W x D x H)	440 x 300 x 44mm	440 x 300 x 44mm	440x300x44mm
	Rackmountable	●	●	●
	Power Supply	Internal	Internal	Internal
Regulator	Power Requirements	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
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

60-watt Ultra Power PoE Injectors/splitters

		Injectors		
Model		POE-171	POE-172	POE-173
Product Image				
Hardware	RJ45 Data Input Port	1	1	1
	RJ45 Data + Power Output Port	1	1	1
	Data Rate	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps
PoE Spec.	PoE Standard	Ultra PoE (802.3at Compliant)	Ultra PoE (802.3at Compliant)	Ultra PoE
	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	1	1	1
	PoE Power Output	56V DC	50V	50V
	PoE Ability	60 watts	60 watts	60 watts
Physical	Dimensions (W x D x H)	90 x 70 x 26mm	115 x 62.5 x 31mm	115 x 62.5 x 31mm
	Power Supply	External	Internal	Internal
	Power Requirements	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
Regulator	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

		Splitters		Extenders	
Model		POE-171S	IPOE-171S	POE-E304	IPOE-E174
Product Image					
Hardware	Data + Power Input Port	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
	Data Power Output Port	1 x RJ45	1 x RJ45	4 x RJ45 Data + Power	
	DC Output Voltage	12V/19V/24V DC, Max. 2A	12V/24V DC, Max. 2A	POE 44~57V DC	
	DIP Switch	Adjustable 12V/19V/24V	Adjustable 12V//24V	-	-
	Data Rate	10/100/1000Mbps		10/100/1000Mbps	
PoE Spec.	PoE Standard	Ultra PoE (802.3at Compliant)		Ultra PoE (802.3at Compliant)	
	PD Type	Both Mid-span and End-span		Both Mid-span and End-span	
	PoE Power Input	52~56V DC	52~56V DC	44~56V DC	44~56V DC
Physical	Dimensions (W x D x H)	95 x 70 x 26mm	32 x 87 x 135mm	160 x 92.5 x 28mm	56 x 87.8 x 135mm
	Operating Temperature	-10~60 degrees C	-40~75 degrees C	0~50 degrees C	-40~75 degrees C
Regulator	EMI/Safety	FCC Class A, CE		FCC Class A, CE	

PoE Injector Hubs

	802.3at PoE+					802.3af PoE	
Model	HPOE-2400G	POE-2400G	HPOE-1200G	POE-1200G	HPOE-460	POE-400	


Product Image



Hardware	RJ45 Data Input Ports	24	24	12	12	4	4
	RJ45 Data + Power Output Ports	24	24	12	12	4	4
	Pass-through Data Rate	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100Mbps
PoE Spec.	PoE Standard	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at	802.3af
	PSE Type	Mid-span	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(-)	4/5(+), 7/8(-)
PoE Ability	PoE Port	24	24	12	12	4	4
	PoE Power Output	52V DC, 30.8 watts max.	52V DC, 30.8 watts max.	52V DC, 30.8 watts max.	52V DC, 30.8 watts max.	52V DC, 30.8 watts max.	48V DC, 15.4 watts max.
	PoE Budget	720 watts max.	440 watts max.	360 watts max.	220 watts max.	120 watts max.	60 watts max.
	Number of Class 2 PD @ 6.5 watts	24	24	12	12	4	4
	Number of Class 3 PD @ 12.9 watts	24	14	12	7	4	4
Intelligent PoE Control	Number of Class 4 PD @ 25 watts	24	14	12	7	4	-
	Over Temperature Protection	●	●	●	●	●	-
	PD Alive Check	-	-	-	-	-	-
	PoE Schedule	●	●	●	●	●	-
	Power Limit	●	●	●	●	●	-
	PoE Priority	●	●	●	●	●	-
Management	PoE Classification	●	●	●	●	●	-
	PoE Event/Threshold Trap	●	●	●	●	●	-
Physical	Interface	HTTP	HTTP	HTTP	HTTP	HTTP	-
	SNMP	v1, v2, trap	v1, v2, trap	v1, v2, trap	v1, v2, trap	v1, v2, trap	-
Physical	Dimensions (W x D x H)	440 x 300 x 44mm	440 x 300 x 44mm	440 x 300 x 44mm	440 x 300 x 44mm	26 x 70 x 97mm	70 x 97 x 26mm
	Rackmountable	●	●	●	●	Wall mount	Wall mount
	Power Supply	Internal	Internal	Internal	Internal	External	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	45V DC, 1.5A
	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
Regulator	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



PoE Injectors & Media Converters

802.3at PoE+					
Model	POE-161	POE-163	POE-164	GTP-805A	
Product Image					
Hardware	RJ45 Data Input Port	1 x RJ45	1 x RJ45	1 x RJ45	1 x 1000X/LC/Vary on Module
	RJ45 Data + Power Output Port	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
	Data Rate	10/100/1000Mbps	10/100/1000Mbps	10/100Mbps	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	1
	PoE Power Output	56V DC	53V DC	53V DC	52V DC
	PoE Ability	30 watts	30 watts	30 watts	30 watts
Physical	Dimensions (W x D x H)	97 x 70 x 25mm	115 x 62.5 x 31mm	115 x 62.5 x 31mm	97 x 70 x 26mm
	Power Supply	External	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
	Operating Temperature	0~50 degrees C	0~50 degrees C	0~50 degrees C	0~50 degrees C
Regulator	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

802.3af PoE				
Model	POE-152	FTP-802		FTP-802S15
Product Image				
Hardware	RJ45 Data Input Port	1 x RJ45	1 x 100FX/SC/MM/2km	
	RJ45 Data + Power Output Port	1 x RJ45	1 x RJ45	
	Data Rate	10/100/1000Mbps	10/100Mbps	
PoE Spec.	PoE Standard	802.3af	802.3af	
	PSE Type	End-span	End-span	
	Power Pin Assignment	1/2(+), 3/6(-)	1/2(+), 3/6(-)	
	PoE Port	1	1	
	PoE Power Output	48V DC	48V DC	
	PoE Ability	15.4 watts	15.4 watts	
Physical	Dimensions (W x D x H)	73 x 55 x 24mm	97 x 70 x 26mm	
	Power Supply	External	External	
	Power Requirements	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz	
	Operating Temperature	0~50 degrees C	0~50 degrees C	
Regulator	EMI/Safety	FCC Class A, CE	FCC Class A, CE	

PoE Extenders, Splitters & Converters

PoE Extenders						
Model	POE-E101	POE-E201	POE-E202	POE-E304		
Product Image						
Hardware	Data + Power Input Port	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45	
	Data + Power Output Port	1 x RJ45	1 x RJ45	2 x RJ45	4 x RJ45	
	DC Output Voltage	PoE 48V DC, max. 270mA	PoE 48-56V DC, max. 510mA	PoE 48-56V DC, max. 510mA	PoE 44-55V DC, max. 510mA	
	DIP Switch	-	-	-	-	
	Data Rate	10/100Mbps	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps	
PoE Spec.	PoE Standard	802.3af	802.3af/802.3at	802.3af/802.3at	PD: Ultra PoE PSE: 802.3af/802.3at	
	PSE Type	End-span	End-span	End-span	End-span	
	PoE Power Input	48V DC	52-56V DC	52-56V DC	52-56V DC	
Physical	Dimensions (W x D x H)	97 x 70 x 26mm	97 x 70 x 26mm	97 x 70 x 26mm	160 x 92.5 x 28mm	
	Operating Temperature	0-50 degrees C	0-50 degrees C	0-50 degrees C	0-50 degrees C	
Regulator	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	

PoE Splitters			PoE Tester	
Model	POE-152S	POE-162S	POE-TESTER	
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	-
	DC Output Voltage	5V/12V DC, max. 2A	12V/24V DC, max. 2A	-
	DIP Switch	Adjustable 5V/12V DC	Adjustable 12V/24V DC	-
	Data Rate	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps
PoE Spec.	PoE Standard	802.3af	802.3af/802.3at	802.3af/802.3at/Ultra PoE
	PD Type	Both Mid-span and End-span	Both Mid-span and End-span	Mid-span and End-span
	PoE Power Input	48V DC	52-56V DC	36-57V DC
Physical	Dimensions (W x D x H)	73 x 55 x 24mm	97 x 70 x 25mm	70 x 23 x 22mm
	Operating Temperature	0-50 degrees C	0-50 degrees C	-10-60 degrees C
Regulator	EMI/Safety	FCC Class B, CE	FCC Class A, CE	CE compliance

Long Reach PoE Series











	Coaxial Switches		Industrial Coaxial Switch
Model	LRP-822CS	LRP-1622CS	LRP-422CST

Product Image



Ethernet Interfaces	10/100BASE-TX	-	-	-
	10/100/1000BASE-T	2 x RJ45	2 x RJ45	2 x RJ45
	1000BASE-SX/LX	2 x SFP slot	2 x SFP slot	2 x SFP slot
	Cabling	Copper: Cat5e or above Fiber: multi-mode 50/125um; Single mode 9/125um	Copper: Cat5e or above Fiber: multi-mode 50/125um; Single mode 9/125um	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	Copper: 100m Fiber: vary on SFP module; up to 120km	Copper: 100m Fiber: vary on SFP module; up to 120km
Long Reach PoE Interfaces	Connectivity	8 x BNC female	16 x BNC female	4 x BNC female
	Cabling	Coaxial cable: 75ohm	Coaxial cable: 75ohm	Coaxial cable: 75ohm
	Maximum Distance	1000m	1000m	1000m
	Data Rate	200m: 75Mbps/81Mbps (Download/Upload) 1000m: 31Mbps/38Mbps (Download/Upload)	200m: 75Mbps/81Mbps (Download/Upload) 1000m: 31Mbps/38Mbps (Download/Upload)	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.	48~56V DC over coaxial, 36 watts max.
	Total Power Budget	240 watts max.	440 watts max.	144 watts max.
	Encryption	AES128-bit	AES128-bit	AES128-bit
PoE Ability	PoE Standard	Power over coaxial	Power over coaxial	Power over coaxial
	PoE Port	8	16	4
	PoE Power Output	54V DC	52V DC	44~56V 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	802.1Q, Q-in-Q, Voice VLAN, Private VLAN	802.1Q, Q-in-Q, Voice VLAN, Private VLAN
	Spanning Tree	802.1D/802.1w/802.1s	802.1D/802.1w/802.1s	802.1D/802.1w/802.1s
	IGMP Snooping	v1, v2, v3	v1, v2, v3	v1, v2, v3
Management	Interface	Console, Telnet, HTTP	Console, Telnet, HTTP	Console, Telnet, HTTP
	SNMP	v1, v2c, v3, trap	v1, v2c, v3, trap	v1, v2c, v3, trap
	SSH/SSL	● / ●	● / ●	● / ●
Physical	Dimensions (W x D x H)	440 x 300 x 44mm	440 x 300 x 44mm	107 x 72 x 152mm
	Power Requirements	100~240V AC, 50/60Hz	100~240V AC, 50/60Hz	Dual 48~56V DC
	Operating Temperature	0~50 degrees C	0~50 degrees C	-40~75 degrees C
Regulator	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE

Long Reach PoE Series

		Long Reach PoE Injectors		Long Reach PoE Extenders		
Model		LRP-101CH	LRP-101UH	LRP-101CE	LRP-101UE	LRP-104CET
Product Image						
						
Ethernet Interfaces	10/100BASE-TX	1 x RJ45 w/ PoE PD	1 x RJ45 w/ PoE PD	1 x RJ45 w/ PoE PSE	1 x RJ45 w/ PoE PSE	4 x RJ45 w/ PoE PSE
	10/100/1000BASE-T	-	-	-	-	-
	PoE Power	-	-	44~54V DC, 600mA max.	44~54V DC, 600mA max.	56V DC, 600mA max.
	Cabling	Cat5e or above	Cat5e or above	Cat5e or above	Cat5e or above	Cat5e or above
	Maximum Distance	100m	100m	100m	100m	100m
Long Reach PoE Interfaces	Connectivity	1 x BNC female (PSE)	1 x RJ45 Copper (PSE)	1 x BNC female (PD)	1 x RJ45 Copper (PD)	1 x BNC female (PD)
	Cabling	Coaxial cable: 75ohm	Copper: 4-pair or 1-pair UTP	Coaxial cable: 75ohm	Copper: 4-pair or 1-pair UTP	Coaxial cable: 75ohm or Copper: 4-pair UTP
	Maximum Distance	1000m	500m	1000m	500m	600m
	Data Rate (Down/upstream)	200m: 58Mbps/58Mbps 1000m: 48Mbps/46Mbps	200m: 58Mbps/58Mbps 500m: 56Mbps/56Mbps	200m: 58Mbps/58Mbps 1000m: 48Mbps/46Mbps	200m: 58Mbps/58Mbps 500m: 56Mbps/56Mbps	200m: 93Mbps/93Mbps 600m: 66Mbps/66Mbps
	Power Output	56V DC, 36 watts max.	56V DC, 36 watts max.	-	-	-
	Total Power Budget	36 watts max.	36 watts max.	-	-	-
	Encryption	AES128-bit	AES128-bit	AES128-bit	AES128-bit	AES128-bit
PoE Ability	PoE Standard	Power over coaxial	Power over UTP	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at
	PoE Port	1 x BNC female (PSE)	1 x UTP	1 x RJ45	1 x RJ45	4 x RJ45
	PoE Power Output	44~56V DC	44~56V DC	54V DC, 600mA max.	54V DC, 600mA max.	56V DC, 600mA max.
Intelligent Power Control	Over Temperature Protection	-	-	-	-	-
	PD Alive Check	-	-	-	-	-
	PoE Schedule	-	-	-	-	-
	Power Limit	-	-	-	-	-
	Scheduled Power Recycling	-	-	-	-	-
Protocols	VLAN	-	-	-	-	-
	Spanning Tree	-	-	-	-	-
	IGMP Snooping	-	-	-	-	-
Management	Interface	-	-	-	-	-
	SNMP	-	-	-	-	-
	SSH/SSL	-	-	-	-	-
Physical	Dimensions (W x Dx H)	90 x 70 x 26 mm	90 x 70 x 26 mm	90 x 70 x 26mm	90 x 70 x 26 mm	56 x 87 x 135 mm
	Power Requirements	DC: 48~56V DC PoE: 802.3at input	DC: 48~56V DC PoE: 802.3at input	44~57V DC PoC or PoU	44~57V DC PoC or PoU	Dual 48~56V DC or 44~57V DC PoC
	Operating Temperature	-20 ~ 70°C	-20 ~ 70°C	-20 ~ 70°C	-20 ~ 70°C	-20 ~ 70°C
Regulator	EMI/Safety	FCC Class A, CE	FCC Class A, CE	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
Connector Interface	LC						LC
Fiber Mode	Multi 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					-40 ~ 75 °C	

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

Model	MFB-FA20	MFB-FB20
Product Image		
Speed (Mbps)	100	
Connector Interface	WDM (LC)	
Fiber Mode	Single Mode	
Distance	20km	
Wavelength (TX)	1310nm	1550nm
Wavelength (RX)	1550nm	1310nm
Operating Temp.	0 ~ 60 °C	

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

Model	MGB-GT	MGB-SX	MGB-SX2	MGB-LX	MGB-L30	MGB-L50	MGB-L70	MGB-L120	MGB-TSX	MGB-TLX	MGB-TL30	MGB-TL70	
Product Image													
Speed (Mbps)	1000											1000	
Connector Interface	Copper	LC								LC			
Fiber Mode	-	Multi Mode			Single Mode					Multi Mode	Single Mode		
Distance	100m	550m	2km	10km	30km	50km	70km	120km	550m	10km	30km	70km	
Wavelength (nm)	-	850nm	1310	1310nm	1310nm	1550nm	1550nm	1550nm	850nm	1310nm	1310nm	1550nm	
Operating Temp.	0 ~ 60 °C								-40 ~ 75 °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-LA60	MGB-LB60
Product Image								
Speed (Mbps)	1000							
Connector Interface	WDM (LC)							
Fiber Mode	Single Mode							
Distance	10km	10km	20km	20km	40km	40km	60km	60km
Wavelength (TX)	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm
Wavelength (RX)	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm
Operating Temp.	0 ~ 60 °C							

10Gbps XFP / 10Gbps SFP+

Model	MTB-XSR	MTB-XLR	MTB-SR	MTB-LR
Product Image				
Speed (Mbps)	10G		10G	
Connector Interface	LC		LC	
Fiber Mode	Multi Mode	Single Mode	Multi Mode	Single Mode
Distance	Up to 300m	10km	Up to 300m	10km
Wavelength (nm)	850nm	1310nm	850nm	1310nm
Operating Temp.	0 ~ 60 °C		0 ~ 60 °C	

Gigabit Ethernet Transceivers

Model	MTB-LA20	MTB-LB20	MTB-LA40	MTB-LB40	MTB-LA60	MTB-LB60
Product Image						
Speed(Mbps)	10G					
Connector Interface	WDM (LC)					
Fiber Mode	Single Mode					
Distance	20km	20km	40km	40km	60km	60km
Wavelength (TX)	1270nm	1330nm	1270nm	1330nm	1270nm	1330nm
Wavelength (RX)	1330nm	1270nm	1330nm	1270nm	1330nm	1270nm
Operating Temp.	0 ~ 60 °C	0 ~ 60 °C	0 ~ 60 °C	0 ~ 60 °C	0 ~ 60 °C	0 ~ 60 °C

10G SFP+ Directly Attached Copper Cable

CB-DASFP-0.5M/CB-DASFP-2M	
Product Image	
Speed (Mbps)	10G
Connector Interface	Directly Attached Copper Cable
Fiber Mode	-
Distance	Up to 0.5m/Up to 2m
Wavelength (nm)	-
Operating Temp.	0 ~ 60 °C

