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## 10/100M Web Smart L2 Switch

	GV-POE0801	GV-POE1601	GV-POE1601-V2	GV-POE2401	GV-POE2401-V2	
<b>Interface</b>						
10/100M RJ45 PoE Ports	8	16	16	24	24	
10/100/1000M RJ45 PoE Ports	N/A	N/A	N/A	N/A	N/A	
Dedicated 10/100/1000M RJ45 Uplink Ports	1	N/A	N/A	N/A	N/A	
Dedicated 1000 Base-SX/LX SFP Ports	1	N/A	N/A	N/A	N/A	
10/100/1000M RJ45 & 1000Base-SX/LX SFP Combo Ports	N/A	2	2	2	2	
Total Ports	10	18	18	26	26	
<b>System Performance</b>						
Packet Buffer	2.75 Mbits	2.75 Mbits	2.75 Mbits	2.75 Mbits	2.75 Mbits	
MAC Address Table Size	4 K	4 K	4 K	4 K	4 K	
Switching Capacity	5.6 Gbps	7.2 Gbps	7.2 Gbps	8.8 Gbps	8.8 Gbps	
Forwarding Rate	4.1664 Mpps	5.3568 Mpps	5.3568 Mpps	6.5472 Mpps	6.5472 Mpps	
Transmission Method: Store and Forward	Yes	Yes	Yes	Yes	Yes	
<b>PoE Features</b>						
IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	
Number of PSE Ports	8	16	16	24	24	
PoE Power Budget	119 W	240 W	235 W	485 W	480 W	
Max. Total Power Consumption	130 W	250 W	250 W	500 W	500 W	
External/Internal	Internal	Internal	Internal	Internal	Internal	
Power Feeding Detecting Capability on PD	Yes	Yes	Yes	Yes	Yes	
PD Alive Check	N/A	N/A	N/A	N/A	N/A	
Power Management (per port)	Enable/Disable PoE Per Port	Yes	Yes	Yes	Yes	
	Overloading Protection	Yes	Yes	Yes	Yes	
	Priority Setting Per Port	N/A	N/A	N/A	N/A	
	Power Level Setting Per Port	N/A	N/A	N/A	N/A	
PoE Mode	Mode B	Mode A	Mode B	Mode A	Mode B	
<b>L2 Features</b>						
Auto-negotiation	Yes	Yes	Yes	Yes	Yes	
Auto MDI/MDIX	Yes	Yes	Yes	Yes	Yes	
Flow Control (duplex)	802.3x (Full)	Yes	Yes	Yes	Yes	
	Back-Pressure (Half)	Yes	Yes	Yes	Yes	
Spanning Tree	IEEE 802.1D (STP)	Yes	Yes	Yes	Yes	
	IEEE 802.1w (RSTP)	Yes	Yes	Yes	Yes	
	IEEE 802.1s (MSTP)	N/A	N/A	N/A	N/A	
VLAN	VLAN Group	Yes	Yes	Yes	Yes	
	Tagged Based	Yes	Yes	Yes	Yes	
	Port-based	Yes	Yes	Yes	Yes	
	Voice VLAN	N/A	N/A	N/A	N/A	
Link Aggregation	IEEE 802.3ad with LACP	Yes	Yes	Yes	Yes	
	Static Trunk	Yes	Yes	Yes	Yes	
	Max. LACP Link Aggregation Group	1, Port 9~10	1, Port 17~18	1, Port 17~18	3, Port 1~4, Port 5~8, Port 25~26	3, Port 1~4, Port 5~8, Port 25~26
	Max. Port per Link Aggregation Group	2	2	2	4	4
	IGMP Snooping v1 / v2 /v3	IGMP v1/v2	IGMP v1/v2	IGMP v1/v2	IGMP v1/v2	IGMP v1/v2
IGMP Snooping	IGMP Static Multicast Addresses	Yes	Yes	Yes	Yes	
	IPv6 MLD Snooping	N/A	N/A	N/A	N/A	
	MLD Static Multicast Addresses	N/A	N/A	N/A	N/A	
	Querier, Immediate Leave	Immediate Leave	Immediate Leave	Immediate Leave	Immediate Leave	Immediate Leave



Storm Control (Broadcast/Multicast/Unknown Unicast)	Yes	Yes	Yes	Yes	Yes
Jumbo Frame Support	N/A	N/A	N/A	N/A	N/A
<b>QoS Features</b>					
Number of priority queue	2	2	2	2	2
Rate Limiting	Ingress	N/A	N/A	N/A	N/A
	Egress	N/A	N/A	N/A	N/A
DiffServ (RFC2474 Remarking)	N/A	N/A	N/A	N/A	N/A
Scheduling (WRR, Strict, Hybrid)	N/A	N/A	N/A	N/A	N/A
CoS	IEEE 802.1p	N/A	N/A	N/A	N/A
	IP ToS precedence, IP DSCP	Yes	Yes	Yes	Yes
<b>Security</b>					
Management System User Name/Password Protection	Yes	Yes	Yes	Yes	Yes
User Privilege	N/A	N/A	N/A	N/A	N/A
Port Security (MAC-based)	Port MAC Binding	Port MAC Binding	Port MAC Binding	Port MAC Binding	Port MAC Binding
IEEE 802.1x Port-based Access Control	N/A	N/A	N/A	N/A	N/A
ACL (L2/L3/L4)	N/A	N/A	N/A	N/A	N/A
IP Source Guard	N/A	N/A	N/A	N/A	N/A
RADIUS (Authentication, Authorization, Accounting)	N/A	N/A	N/A	N/A	N/A
TACACS+	N/A	N/A	N/A	N/A	N/A
HTTP & SSL (Secured Web)	N/A	N/A	N/A	N/A	N/A
SSH v2.0 (Secured Telnet Session)	N/A	N/A	N/A	N/A	N/A
MAC/IP Filter	N/A	N/A	N/A	N/A	N/A
<b>Management</b>					
Command Line Interface (CLI)	N/A	N/A	N/A	N/A	N/A
Web Based Management	Yes	Yes	Yes	Yes	Yes
Telnet	N/A	N/A	N/A	N/A	N/A
Access Management Filtering	N/A	N/A	N/A	N/A	N/A
Firmware Upgrade via HTTP	Yes	Yes	Yes	Yes	Yes
Dual Firmware Images	N/A	N/A	N/A	N/A	N/A
Configuration Download/Upload	Yes	Yes	Yes	Yes	Yes
SNMP (v1 / v2c / v3)	N/A	N/A	N/A	N/A	N/A
RMON (1, 2, 3 & 9 groups)	N/A	N/A	N/A	N/A	N/A
DHCP (Client/Relay/Option82/Snooping/Server)	DHCP Client Only	DHCP Client Only	DHCP Client Only	DHCP Client Only	DHCP Client Only
System Event/Error Log	N/A	N/A	N/A	N/A	N/A
NTP/LLDP	N/A	N/A	N/A	N/A	N/A
Cable Diagnostics	N/A	N/A	N/A	N/A	N/A
IPv6 Configuration	N/A	N/A	N/A	N/A	N/A
Port Mirroring	Yes	Yes	Yes	Yes	Yes
<b>Mechanical</b>					
Power Input	100~240V AC	100~240V AC	100~240V AC	100~240V AC	100~240V AC
Dimensions	44 x 266 x 160 mm (1.7 x 10.5 x 6.3 in)	44 x 440 x 330 mm (1.7 x 17.3 x 13.0 in)	44 x 440 x 220 mm (1.7 x 17.3 x 8.7 in)	44 x 440 x 331 mm (1.7 x 17.3 x 13.0 in)	44 x 440 x 331 mm (1.7 x 17.3 x 13.0 in)
DIP Switch	N/A	N/A	N/A	N/A	N/A
LED	Power, PoE, Link/Act	Power, PoE, Link/Act, 1000M	Power, PoE, Link/Act, 1000M	Power, PoE, Link/Act, 1000M	Power, PoE, Link/Act, 1000M
Operating Temperature	0 ~ 45 °C (32 ~ 99 °F)	0 °C ~ 40 °C (32 ~ 88 °F)	0 °C ~ 40 °C (32 ~ 88 °F)	0 °C ~ 40 °C (32 ~ 88 °F)	0 °C ~ 40 °C (32 ~ 88 °F)
Operating Humidity	10 to 90% (non-condensing)	10 to 90% (non-condensing)	10 to 90% (non-condensing)	10 to 90% (non-condensing)	10 to 90% (non-condensing)
Weight	1.8 kg (3.96 lb)	4.7 kg (10.4 lb)	4.7 kg (10.4 lb)	4.7 kg (10.4 lb)	4.7 kg (10.4 lb)
Certification	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE
<b>Standard</b>					
IEEE 802.3 – 10BaseT	Yes	Yes	Yes	Yes	Yes
IEEE 802.3u - 100BaseTX	Yes	Yes	Yes	Yes	Yes
IEEE 802.3ab - 1000BaseT	Yes	Yes	Yes	Yes	Yes
IEEE 802.3z 1000BaseSX/LX	Yes	Yes	Yes	Yes	Yes
IEEE 802.3af Power over Ethernet (PoE)	Yes	Yes	Yes	Yes	Yes
IEEE 802.3at Power over Ethernet (PoE+)	Yes	Yes	Yes	Yes	Yes
IEEE 802.3az - Energy Efficient Ethernet (EEE)	N/A	N/A	N/A	N/A	N/A
IEEE 802.3x - Flow Control	Yes	Yes	Yes	Yes	Yes
IEEE 802.1Q - VLAN	Yes	Yes	Yes	Yes	Yes



IEEE 802.1v - Protocol VLAN	Yes	Yes	Yes	Yes	Yes
IEEE 802.1p - Class of Service	Yes	Yes	Yes	Yes	Yes
IEEE 802.1D - Spanning Tree	Yes	Yes	Yes	Yes	Yes
IEEE 802.1w - Rapid Spanning Tree	Yes	Yes	Yes	Yes	Yes
IEEE 802.1s - Multiple Spanning Tree	N/A	N/A	N/A	N/A	N/A
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	Yes	Yes	Yes	Yes	Yes
IEEE 802.1AB - LLDP (Link Layer Discovery Protocol)	N/A	N/A	N/A	N/A	N/A
IEEE 802.1X - Access Control	N/A	N/A	N/A	N/A	N/A
<b>Industry Standard</b>					
Alarm Contact	N/A	N/A	N/A	N/A	N/A
Reverse Polarity Protection	N/A	N/A	N/A	N/A	N/A
Casing	N/A	N/A	N/A	N/A	N/A
EMI	N/A	N/A	N/A	N/A	N/A
EMS	N/A	N/A	N/A	N/A	N/A
Shock Compliance	N/A	N/A	N/A	N/A	N/A
Free Fall Compliance	N/A	N/A	N/A	N/A	N/A
Vibration Compliance	Yes	Yes	Yes	Yes	Yes

**Note:** Specifications are subject to change without notice.



## Gigabit Web Smart L2 Switch

	GV-POE0811	GV-POE0811-V2	GV-APOE0811
<b>Interface</b>			
10/100M RJ45 PoE Ports	N/A	N/A	N/A
10/100/1000M RJ45 PoE Ports	8	8	8
Dedicated 10/100/1000M RJ45 Uplink Ports	N/A	1	N/A
Dedicated 1000 Base-SX/LX SFP Ports	2	1	2
10/100/1000M RJ45 & 1000Base-SX/LX SFP Combo Ports	N/A	N/A	N/A
Total Ports	10	10	10
<b>System Performance</b>			
Packet Buffer	144 KB	4 Mbits	4.1 Mbits
MAC Address Table Size	8 K	8 K	8 K
Switching Capacity	16 Gbps	20 Gbps	20 Gbps
Forwarding Rate	14.88 Mpps	14.88 Mpps	14.88 Mpps
Transmission Method: Store and Forward	Y	Y	Y
<b>PoE Features</b>			
IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at
Number of PSE Ports	8	8	8
PoE Power Budget	118 W	118 W	140 W
Max. Total Power Consumption	130 W	130 W	150 W
External/Internal	Internal	Internal	External
Power Feeding Detecting Capability on PD	Y	Y	Y
PD Alive Check	N/A	N/A	Y
Power Management (per port)	Enable/Disable PoE Per Port	Y	Y
	Overloading Protection	Y	Y
	Priority Setting Per Port	N/A	N/A
	Power Level Setting Per Port	N/A	N/A
PoE Mode	Mode B	Mode A	Mode A
<b>L2 Features</b>			
Auto-negotiation	Y	Y	Y
Auto MDI/MDIX	Y	Y	Y
Flow Control (duplex)	802.3x (Full)	Y	Y
	Back-Pressure (Half)	Y	Y
Spanning Tree	IEEE 802.1D (STP)	Y	Y
	IEEE 802.1w (RSTP)	Y	N/A
	IEEE 802.1s (MSTP)	N/A	N/A
VLAN	VLAN Group	Y	Y
	Tagged Based	Y	Y
	Port-based	Y	Y
	Voice VLAN	N/A	N/A
Link Aggregation	IEEE 802.3ad with LACP	Y	Y
	Static Trunk	Y	Y
	Max. LACP Link Aggregation Group	4	4
	Max. Port per Link Aggregation Group	8	8
IGMP Snooping	IGMP Snooping v1 / v2 / v3	IGMP v1/v2	IGMP v1/v2/v3
	IGMP Static Multicast Addresses	Y	Y
	IPv6 MLD Snooping	N/A	N/A
	MLD Static Multicast Addresses	N/A	N/A
Storm Control (Broadcast/Multicast/Unknown Unicast)	Querier, Immediate Leave	N/A	Y
		Y	Y
Jumbo Frame Support	9.6K	9.6K	9.6K
<b>QoS Features</b>			
Number of priority queue	8	8	8
Rate Limiting	Ingress	Y	N/A
	Egress	Y	N/A
DiffServ (RFC2474 Remarking)	N/A	N/A	N/A
Scheduling (WRR, Strict, Hybrid)	Y	N/A	Y
CoS	IEEE 802.1p	Y	Y
	IP ToS precedence, IP DSCP	Y	Y
<b>Security</b>			
Management System User Name/Password Protection	Y	Y	Y
User Privilege	N/A	N/A	Y
Port Security (MAC-based)	N/A	N/A	Port MAC Binding
IEEE 802.1x Port-based Access Control	N/A	N/A	Y
ACL (L2/L3/L4)	N/A	N/A	Y
IP Source Guard	N/A	N/A	Y
RADIUS (Authentication, Authorization, Accounting)	N/A	N/A	Y
TACACS+	N/A	N/A	Y
HTTP & SSL (Secured Web)	N/A	N/A	Y
SSH v2.0 (Secured Telnet Session)	N/A	N/A	Y
MAC/IP Filter	N/A	N/A	Y



<b>Management</b>			
Command Line Interface (CLI)	N/A	N/A	N/A
Web Based Management	Y	Y	Y
Telnet	N/A	N/A	Y
Access Management Filtering	N/A	N/A	Y
Firmware Upgrade via HTTP	Y	Y	Y
Dual Firmware Images	N/A	N/A	Y
Configuration Download/Upload	Y	Y	Y
SNMP (v1 / v2c / v3)	Y	N/A	Y
RMON (1, 2, 3 & 9 groups)	N/A	N/A	Y
DHCP (Client/Relay/Option82/Snooping/Server)	DHCP Client Only	DHCP Client Only	DHCP Client Only
System Event/Error Log	N/A	N/A	Y
NTP/LLDP	N/A	LLDP	Y
Cable Diagnostics	Y	N/A	Y
IPv6 Configuration	N/A	N/A	Y
Port Mirroring	Y	Y	Y
<b>Mechanical</b>			
Power Input	100~240V AC	100~240V AC	100~240V AC
Dimensions	44 x 440 x 220 mm (1.7 x 10.5 x 8.7 in)	44 x 266x 161 mm (1.7 x 10.5 x 6.3 in)	44 x 280 x 180 mm (1.73" x 11.02" x 7.08")
DIP Switch	N/A	N/A	N/A
LED	Power, PoE, Link/Act, 1000M	Power, PoE, Link/Act	Power, PoE, Link/Act, Sys
Operating Temperature	0 °C ~ 40 °C (32 ~ 88 °F)	0 °C ~ 50 °C (32 ~ 110 °F)	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	10 to 90% (non-condensing)	10 to 90% (non-condensing)	10 to 90% (non-condensing)
Weight	3 kg (6.61 lb)	1.8 kg (3.96 lb)	1.68 kg (3.7 lb)
Certification	FCC Class A, CE	CE, Commercial FCC Part 15 Class B	CE, FCC Class A, RoHS compliant
<b>Standard</b>			
IEEE 802.3 – 10BaseT	Y	Y	Y
IEEE 802.3u - 100BaseTX	Y	Y	Y
IEEE 802.3ab - 1000BaseT	Y	Y	Y
IEEE 802.3z 1000BaseSX/LX	Y	Y	Y
IEEE 802.3af Power over Ethernet (PoE)	Y	Y	Y
IEEE 802.3at Power over Ethernet (PoE+)	Y	Y	Y
IEEE 802.3az - Energy Efficient Ethernet (EEE)	N/A	Y	N/A
IEEE 802.3x - Flow Control	Y	Y	Y
IEEE 802.1Q - VLAN	Y	Y	Y
IEEE 802.1v - Protocol VLAN	Y	Y	Y
IEEE 802.1p - Class of Service	Y	Y	Y
IEEE 802.1D - Spanning Tree	Y	N/A	Y
IEEE 802.1w - Rapid Spanning Tree	Y	N/A	Y
IEEE 802.1s - Multiple Spanning Tree	N/A	Y	Y
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	Y	N/A	Y
IEEE 802.1AB - LLDP (Link Layer Discovery Protocol)	N/A	Y	Y
IEEE 802.1X - Access Control	N/A	N/A	Y
<b>Industry Standard</b>			
Alarm Contact	N/A	N/A	N/A
Reverse Polarity Protection	N/A	N/A	N/A
Casing	N/A	N/A	N/A
EMI	N/A	N/A	N/A
EMS	N/A	N/A	N/A
Shock Compliance	N/A	N/A	N/A
Free Fall Compliance	N/A	N/A	N/A
Vibration Compliance	N/A	N/A	N/A

**Note:** Specifications are subject to change without notice.



	GV-POE1611	GV-POE1611-V2	GV-APOE1611	GV-APOE1611-V2	
<b>Interface</b>					
10/100M RJ45 PoE Ports	N/A	N/A	N/A	N/A	
10/100/1000M RJ45 PoE Ports	16	16	16	16	
Dedicated 10/100/1000M RJ45 Uplink Ports	N/A	N/A	N/A	N/A	
Dedicated 1000 Base-SX/LX SFP Ports	N/A	N/A	2	2	
10/100/1000M RJ45 & 1000Base-SX/LX SFP Combo Ports	4 (Port 1~4)	4 (Port 1~4)	N/A	2 (Port 17~18)	
Total Ports	16	16	18	22	
<b>System Performance</b>					
Packet Buffer	500 KB	500 KB	4 Mbits	4.1 Mbits	
MAC Address Table Size	8 K	8 K	8 K	8 K	
Switching Capacity	32 Gbps	32 Gbps	36 Gbps	40 Gbps	
Forwarding Rate	23.808 Mpps	23.808 Mpps	26.8 Mpps	29.76 Mpps	
Transmission Method: Store and Forward	Y	Y	Y	Y	
<b>PoE Features</b>					
IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	
Number of PSE Ports	16	16	16	16	
PoE Power Budget	230 W	227 W	300 W	250 W	
Max. Total Power Consumption	250 W	250 W	330 W	280 W	
External/Internal	Internal	Internal	External	External	
Power Feeding Detecting Capability on PD	Y	Y	Y	Y	
PD Alive Check	N/A	N/A	Y	Y	
Power Management (per port)	Enable/Disable PoE Per Port	Y	Y	Y	
	Overloading Protection	Y	Y	Y	
	Priority Setting Per Port	N/A	N/A	N/A	N/A
	Power Level Setting Per Port	N/A	N/A	N/A	N/A
PoE Mode	Mode A	Mode A	Mode A	Mode A	
<b>L2 Features</b>					
Auto-negotiation	Y	Y	Y	Y	
Auto MDI/MDIX	Y	Y	Y	Y	
Flow Control (duplex)	802.3x (Full)	Y	Y	Y	
	Back-Pressure (Half)	Y	Y	Y	
Spanning Tree	IEEE 802.1D (STP)	Y	Y	Y	
	IEEE 802.1w (RSTP)	Y	Y	Y	
	IEEE 802.1s (MSTP)	N/A	N/A	Y	Y
VLAN	VLAN Group	Y	Y	Y	
	Tagged Based	Y	Y	Y	
	Port-based	Y	Y	Y	
	Voice VLAN	N/A	N/A	Y	Y
Link Aggregation	IEEE 802.3ad with LACP	Y	Y	Y	
	Static Trunk	Y	Y	Y	
	Max. LACP Link Aggregation Group	8	8	8	8
	Max. Port per Link Aggregation Group	8	8	8	8
	IGMP Snooping v1 / v2 /v3	IGMP v1/v2	IGMP v1/v2	IGMP v1/v2/v3	IGMP v1/v2/v3
IGMP Snooping	IGMP Static Multicast Addresses	Y	Y	Y	
	IPv6 MLD Snooping	N/A	N/A	Y	
	MLD Static Multicast Addresses	N/A	N/A	Y	
	Querier, Immediate Leave	N/A	N/A	Y	
Storm Control (Broadcast/Multicast/Unknown Unicast)	Y	Y	Y	Y	
Jumbo Frame Support	9K	9.6K	9.6K	9.6K	



QoS Features					
Number of priority queue		8	8	8	8
Rate Limiting	Ingress	Y	Y	Y	Y
	Egress	Y	Y	Y	Y
DiffServ (RFC2474 Remarking)		N/A	N/A	N/A	N/A
Scheduling (WRR, Strict, Hybrid)		Y	Y	Y	Y
CoS	IEEE 802.1p	Y	Y	Y	Y
	IP ToS precedence, IP DSCP	Y	Y	Y	Y
Security					
Management System User Name/Password Protection		Y	Y	Y	Y
User Privilege		N/A	N/A	Y	Y
Port Security (MAC-based)		N/A	N/A	Port MAC Binding	Port MAC Binding
IEEE 802.1x Port-based Access Control		N/A	N/A	Y	Y
ACL (L2/L3/L4)		N/A	N/A	Y	Y
IP Source Guard		N/A	N/A	Y	Y
RADIUS (Authentication, Authorization, Accounting)		Y	Y	Y	Y
TACACS+		N/A	N/A	Y	Y
HTTP & SSL (Secured Web)		N/A	N/A	Y	Y
SSH v2.0 (Secured Telnet Session)		N/A	N/A	Y	Y
MAC/IP Filter		Y	Y	Y	Y
Management					
Command Line Interface (CLI)		N/A	N/A	N/A	N/A
Web Based Management		Y	Y	Y	Y
Telnet		N/A	N/A	Y	Y
Access Management Filtering		N/A	N/A	Y	Y
Firmware Upgrade via HTTP		Y	Y	Y	Y
Dual Firmware Images		N/A	N/A	Y	Y
Configuration Download/Upload		Y	Y	Y	Y
SNMP (v1 / v2c / v3)		Y	Y	Y	Y
RMON (1, 2, 3 & 9 groups)		N/A	N/A	Y	Y
DHCP (Client/Relay/Option82/Snooping/Server)		DHCP Client Only	DHCP Client Only	DHCP Client/Option82/Snooping	DHCP Client/Option82/Snooping
System Event/Error Log		N/A	N/A	Y	Y
NTP/LLDP		N/A	N/A	Y	Y
Cable Diagnostics		Y	N/A	Y	Y
IPv6 Configuration		N/A	N/A	Y	Y
Port Mirroring		Y	Y	Y	Y
Mechanical					
Power Input		100~240V AC	100~240V AC	100~240V AC	100~240V AC
Dimensions		44 x 440 x 331 mm (1.7 x 10.5 x 13.0 in)	44 x 440 x 331 mm (1.7 x 10.5 x 13.0 in)	45 x 441 x 226 mm (1.77" x 17.3" x 8.89")	44 x 440 x 207 mm (1.73" x 17.32" x 8.14")
DIP Switch		N/A	N/A	N/A	N/A
LED		Power, PoE, Link/Act, SFP	Power, PoE, Link/Act, SFP	Power, PoE, Link/Act, Sys	Power, PoE, Link/Act, Sys
Operating Temperature		0 °C ~ 40 °C (32 ~ 88 °F)	0 °C ~ 40 °C (32 ~ 88 °F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity		10 to 90% (non-condensing)	10 to 90% (non-condensing)	10 to 90% (non-condensing)	10 to 90% (non-condensing)
Weight		4.6 kg (10.14 lb)	4 kg (8.81 lb)	4.38 kg (9.65 lb)	2.56 kg (5.64 lb)
Certification		FCC Class A, CE	FCC Class A, CE	CE, FCC Class A, RoHS compliant	CE, FCC Class A, RoHS compliant
Standard					
IEEE 802.3 – 10BaseT		Y	Y	Y	Y
IEEE 802.3u - 100BaseTX		Y	Y	Y	Y
IEEE 802.3ab - 1000BaseT		Y	Y	Y	Y
IEEE 802.3z 1000BaseSX/LX		Y	Y	Y	Y
IEEE 802.3af Power over Ethernet (PoE)		Y	Y	Y	Y
IEEE 802.3at Power over Ethernet (PoE+)		Y	Y	Y	Y
IEEE 802.3az - Energy Efficient Ethernet (EEE)		N/A	N/A	N/A	N/A
IEEE 802.3x - Flow Control		Y	Y	Y	Y
IEEE 802.1Q - VLAN		Y	Y	Y	Y
IEEE 802.1v - Protocol VLAN		Y	Y	Y	Y
IEEE 802.1p - Class of Service		Y	Y	Y	Y
IEEE 802.1D - Spanning Tree		Y	Y	Y	Y
IEEE 802.1w - Rapid Spanning Tree		Y	Y	Y	Y
IEEE 802.1s - Multiple Spanning Tree		N/A	N/A	Y	Y





IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	Y	Y	Y	Y
IEEE 802.1AB - LLDP (Link Layer Discovery Protocol)	N/A	N/A	Y	Y
IEEE 802.1X - Access Control	Y	Y	Y	Y
<b>Industry Standard</b>				
Alarm Contact	N/A	N/A	N/A	N/A
Reverse Polarity Protection	N/A	N/A	N/A	N/A
Casing	N/A	N/A	N/A	N/A
EMI	N/A	N/A	N/A	N/A
EMS	N/A	N/A	N/A	N/A
Shock Compliance	N/A	N/A	N/A	N/A
Free Fall Compliance	N/A	N/A	N/A	N/A
Vibration Compliance	N/A	N/A	N/A	N/A

**Note:** Specifications are subject to change without notice.



	GV-POE2411	GV-POE2411-V2	GV-APOE2411	GV-APOE2411-V2	
<b>Interface</b>					
10/100M RJ45 PoE Ports	N/A	N/A	N/A	N/A	
10/100/1000M RJ45 PoE Ports	24	24	24	24	
Dedicated 10/100/1000M RJ45 Uplink Ports	N/A	N/A	N/A	N/A	
Dedicated 1000 Base-SX/LX SFP Ports	N/A	N/A	4	4	
10/100/1000M RJ45 & 1000Base-SX/LX SFP Combo Ports	4 (Port 1~4)	4 (Port 1~4)	N/A	2 (Port 25~26)	
Total Ports	24	24	28	30	
<b>System Performance</b>					
Packet Buffer	500 KB	500 KB	4 Mbits	4Mbits	
MAC Address Table Size	8 K	8 K	8 K	8 K	
Switching Capacity	48 Gbps	48 Gbps	56 Gbps	56 Gbps	
Forwarding Rate	35.712 Mpps	35.712 Mpps	40.56 Mpps	41.66 Mpps	
Transmission Method: Store and Forward	Y	Y	Y	Y	
<b>PoE Features</b>					
IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	
Number of PSE Ports	24	24	24	24	
PoE Power Budget	477 W	474 W	380 W	370 W	
Max. Total Power Consumption	500 W	500 W	420 W	390 W	
External/Internal	Internal	Internal	External	External	
Power Feeding Detecting Capability on PD	Y	Y	Y	Y	
PD Alive Check	N/A	N/A	Y	Y	
Power Management (per port)	Enable/Disable PoE Per Port	Y	Y	Y	
	Overloading Protection	Y	Y	Y	
	Priority Setting Per Port	N/A	N/A	N/A	N/A
	Power Level Setting Per Port	N/A	N/A	N/A	N/A
PoE Mode	Mode A	Mode A	Mode A	Mode A	
<b>L2 Features</b>					
Auto-negotiation	Y	Y	Y	Y	
Auto MDI/MDIX	Y	Y	Y	Y	
Flow Control (duplex)	802.3x (Full)	Y	Y	Y	
	Back-Pressure (Half)	Y	Y	Y	
Spanning Tree	IEEE 802.1D (STP)	Y	Y	Y	
	IEEE 802.1w (RSTP)	Y	Y	Y	
	IEEE 802.1s (MSTP)	N/A	N/A	Y	Y
VLAN	VLAN Group	Y	Y	Y	
	Tagged Based	Y	Y	Y	
	Port-based	Y	Y	Y	
	Voice VLAN	N/A	N/A	Y	Y
Link Aggregation	IEEE 802.3ad with LACP	Y	Y	Y	
	Static Trunk	Y	Y	Y	
	Max. LACP Link Aggregation Group	8	8	8	8
	Max. Port per Link Aggregation Group	8	8	8	8
IGMP Snooping	IGMP Snooping v1 / v2 /v3	IGMP v1/v2	IGMP v1/v2	IGMP v1/v2/v3	
	IGMP Static Multicast Addresses	Y	Y	Y	
	IPv6 MLD Snooping	N/A	N/A	Y	
	MLD Static Multicast Addresses	N/A	N/A	Y	
	Querier, Immediate Leave	N/A	N/A	Y	
Storm Control (Broadcast/Multicast/Unknown Unicast)	Y	Y	Y	Y	
Jumbo Frame Support	9K	9.6K	9.6K	9.6K	
<b>QoS Features</b>					



Number of priority queue	8	8	8	
Rate Limiting	Ingress	Y	Y	Y
	Egress	Y	Y	Y
DiffServ (RFC2474 Remarking)	N/A	N/A	N/A	N/A
Scheduling (WRR, Strict, Hybrid)	Y	Y	Y	Y
CoS	IEEE 802.1p	Y	Y	Y
	IP ToS precedence, IP DSCP	Y	Y	Y
<b>Security</b>				
Management System User Name/Password Protection	Y	Y	Y	Y
User Privilege	N/A	N/A	Y	Y
Port Security (MAC-based)	N/A	N/A	Port MAC Binding	Port MAC Binding
IEEE 802.1x Port-based Access Control	N/A	N/A	Y	Y
ACL (L2/L3/L4)	N/A	N/A	Y	Y
IP Source Guard	N/A	N/A	Y	Y
RADIUS (Authentication, Authorization, Accounting)	Y	Y	Y	Y
TACACS+	N/A	N/A	Y	Y
HTTP & SSL (Secured Web)	N/A	N/A	Y	Y
SSH v2.0 (Secured Telnet Session)	N/A	N/A	Y	Y
MAC/IP Filter	Y	Y	Y	Y
<b>Management</b>				
Command Line Interface (CLI)	N/A	N/A	N/A	N/A
Web Based Management	Y	Y	Y	Y
Telnet	N/A	N/A	Y	Y
Access Management Filtering	N/A	N/A	Y	Y
Firmware Upgrade via HTTP	Y	Y	Y	Y
Dual Firmware Images	N/A	N/A	Y	Y
Configuration Download/Upload	Y	Y	Y	Y
SNMP (v1 / v2c / v3)	Y	Y	Y	Y
RMON (1, 2, 3 & 9 groups)	N/A	N/A	Y	Y
DHCP (Client/Relay/Option82/Snooping/Server)	DHCP Client Only	DHCP Client Only	DHCP Client/Option82/Snooping	DHCP Client/Option82/Snooping
System Event/Error Log	N/A	N/A	Y	Y
NTP/LLDP	N/A	N/A	Y	Y
Cable Diagnostics	Y	N/A	Y	Y
IPv6 Configuration	N/A	N/A	Y	Y
Port Mirroring	Y	Y	Y	Y
<b>Mechanical</b>				
Power Input	100~240V AC	100~240V AC	100~240V AC	100~240V AC
Dimensions	44 x 440 x 331 mm (1.7 x 10.5 x 13.0 in)	44 x 440 x 331 mm (1.7 x 10.5 x 13.0 in)	45 x 441 x 226 mm (1.77" x 17.3" x 8.89")	44 x 440 x 207 mm (1.73" x 17.32" x 8.14")
DIP Switch	N/A	N/A	N/A	N/A
LED	Power, PoE, Link/Act, SFP	Power, PoE, Link/Act, SFP	Power, PoE, Link/Act, Sys	Power, PoE, Link/Act, Sys
Operating Temperature	0 °C ~ 40 °C (32 ~ 88 °F)	0 °C ~ 40 °C (32 ~ 88 °F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	10 to 90% (non-condensing)	10 to 90% (non-condensing)	10 to 90% (non-condensing)	10 to 90% (non-condensing)
Weight	4.7 kg (10.36 lb)	4.6 kg (10.14 lb)	4.62 kg (10.1 lb)	3.32 kg (7.31 lb)
Certification	FCC Class A, CE	FCC Class A, CE	CE, FCC Class A, RoHS compliant	CE, FCC Class A, RoHS compliant
<b>Standard</b>				
IEEE 802.3 – 10BaseT	Y	Y	Y	Y
IEEE 802.3u - 100BaseTX	Y	Y	Y	Y
IEEE 802.3ab - 1000BaseT	Y	Y	Y	Y
IEEE 802.3z 1000BaseSX/LX	Y	Y	Y	Y
IEEE 802.3af Power over Ethernet (PoE)	Y	Y	Y	Y
IEEE 802.3at Power over Ethernet (PoE+)	Y	Y	Y	Y
IEEE 802.3az - Energy Efficient Ethernet (EEE)	N/A	N/A	N/A	N/A
IEEE 802.3x - Flow Control	Y	Y	Y	Y
IEEE 802.1Q - VLAN	Y	Y	Y	Y
IEEE 802.1v - Protocol VLAN	Y	Y	Y	Y
IEEE 802.1p - Class of Service	Y	Y	Y	Y
IEEE 802.1D - Spanning Tree	Y	Y	Y	Y
IEEE 802.1w - Rapid Spanning Tree	Y	Y	Y	Y
IEEE 802.1s - Multiple Spanning Tree	N/A	N/A	Y	Y



IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	Y	Y	Y	Y
IEEE 802.1AB - LLDP (Link Layer Discovery Protocol)	N/A	N/A	Y	Y
IEEE 802.1X - Access Control	Y	Y	Y	Y
<b>Industry Standard</b>				
Alarm Contact	N/A	N/A	N/A	N/A
Reverse Polarity Protection	N/A	N/A	N/A	N/A
Casing	N/A	N/A	N/A	N/A
EMI	N/A	N/A	N/A	N/A
EMS	N/A	N/A	N/A	N/A
Shock Compliance	N/A	N/A	N/A	N/A
Free Fall Compliance	N/A	N/A	N/A	N/A
Vibration Compliance	N/A	N/A	N/A	N/A

**Note:** Specifications are subject to change without notice.



## Un-Management Switch

		GV-POE0400	GV-POE0400-V2	GV-APOE0400
<b>Interface</b>				
10/100M RJ45 PoE Ports		4	4	4
10/100M RJ45 Uplink Port		1	1	2
10/100/1000M RJ45 PoE Ports		N/A	N/A	N/A
Dedicated 10/100/1000M RJ45 Uplink Ports		N/A	N/A	N/A
Dedicated 1000 Base-SX/LX SFP Ports		N/A	N/A	N/A
10/100/1000M RJ45 & 1000Base-SX/LX SFP Combo Ports		N/A	N/A	N/A
Total Ports		5	5	6
<b>System Performance</b>				
Packet Buffer		1 K	1 K	768 Kbits
MAC Address Table Size		764 Kb	764 Kb	2 K
Switching Capacity		1 Gbps	1 Gbps	1.2 Gbps
Forwarding Rate		0.744 Mpps	0.744 Mpps	0.89 Mpps
Transmission Method: Store and Forward		Y	Y	Y
<b>PoE Features</b>				
IEEE 802.3af/at		IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3at
Number of PSE Ports		4	4	4
PoE Power Budget		67 W (ADP with Level V certificated) 62 W (ADP with Level VI certificated)	62 W	60 W
Max. Total Power Consumption		70 W (ADP with Level V certificated) 65 W (ADP with Level VI certificated)	70 W (ADP with Level V certificated) 65 W (ADP with Level VI certificated)	65 W
External/Internal		External	External	Internal
Power Feeding Detecting Capability on PD		Y	Y	Y
PD Alive Check		N/A	N/A	N/A
Power Management (per port)	Enable/Disable PoE Per Port	N/A	N/A	N/A
	Overloading Protection	Y	Y	Y
	Priority Setting Per Port	N/A	N/A	N/A
	Power Level Setting Per Port	N/A	N/A	N/A
PoE Mode		Mode B	Mode B	Mode A
<b>L2 Features</b>				
Auto-negotiation		Y	Y	Y
Auto MDI/MDIX		Y	Y	Y
Flow Control (duplex)	802.3x (Full)	Y	Y	Y
	Back-Pressure (Half)	Y	Y	Y
Spanning Tree	IEEE 802.1D (STP)	N/A	N/A	N/A
	IEEE 802.1w (RSTP)	N/A	N/A	N/A
	IEEE 802.1s (MSTP)	N/A	N/A	N/A
VLAN	VLAN Group	N/A	N/A	N/A
	Tagged Based	N/A	N/A	N/A
	Port-based	N/A	N/A	N/A
	Voice VLAN	N/A	N/A	N/A
Link Aggregation	IEEE 802.3ad with LACP	N/A	N/A	N/A
	Static Trunk	N/A	N/A	N/A
	Max. LACP Link Aggregation Group	N/A	N/A	N/A
	Max. Port per Link Aggregation Group	N/A	N/A	N/A
IGMP Snooping	IGMP Snooping v1 / v2 /v3	N/A	N/A	N/A
	IGMP Static Multicast Addresses	N/A	N/A	N/A
	IPv6 MLD Snooping	N/A	N/A	N/A
IGMP Snooping	MLD Static Multicast Addresses	N/A	N/A	N/A



	Querier, Immediate Leave	N/A	N/A	N/A
<b>Storm Control (Broadcast/Multicast/Unknown Unicast)</b>				
		N/A	N/A	N/A
<b>Jumbo Frame Support</b>				
		N/A	N/A	N/A
<b>IPv6 Support</b>				
Dual IPv6/IPv4 Stack		N/A	N/A	N/A
IPv6 Web/SSL		N/A	N/A	N/A
IPv6 SNMP		N/A	N/A	N/A
IPv6 Telnet Server/SSH		N/A	N/A	N/A
IPv6 Ping Trace Route		N/A	N/A	N/A
IPv6 RADIUS		N/A	N/A	N/A
IPv6 Protocol-based VLANs		N/A	N/A	N/A
IPv6 SNMP		N/A	N/A	N/A
IPv6 ACL/IPMC		N/A	N/A	N/A
<b>QoS Features</b>				
Number of priority queue		N/A	N/A	N/A
Rate Limiting	Ingress	N/A	N/A	N/A
	Egress	N/A	N/A	N/A
DiffServ (RFC2474 Remarking)		N/A	N/A	N/A
Scheduling (WRR, Strict, Hybrid)		N/A	N/A	N/A
CoS	IEEE 802.1p	N/A	N/A	N/A
	IP ToS	N/A	N/A	N/A
	precedence, IP DSCP	N/A	N/A	N/A
<b>Security</b>				
Management System User Name/Password Protection		N/A	N/A	N/A
User Privilege		N/A	N/A	N/A
Port Security (MAC-based)		N/A	N/A	N/A
IEEE 802.1x Port-based Access Control		N/A	N/A	N/A
ACL (L2/L3/L4)		N/A	N/A	N/A
IP Source Guard		N/A	N/A	N/A
RADIUS (Authentication, Authorization, Accounting)		N/A	N/A	N/A
TACACS+		N/A	N/A	N/A
HTTP & SSL (Secured Web)		N/A	N/A	N/A
SSH v2.0 (Secured Telnet Session)		N/A	N/A	N/A
MAC/IP Filter		N/A	N/A	N/A
<b>Management</b>				
Command Line Interface (CLI)		N/A	N/A	N/A
Web Based Management		N/A	N/A	N/A
Telnet		N/A	N/A	N/A
Access Management Filtering		N/A	N/A	N/A
Firmware Upgrade via HTTP		N/A	N/A	N/A
Dual Firmware Images		N/A	N/A	N/A
Configuration Download/Upload		N/A	N/A	N/A
SNMP (v1 / v2c / v3)		N/A	N/A	N/A
RMON (1, 2, 3 & 9 groups)		N/A	N/A	N/A
DHCP (Client/Relay/Option82/Snooping /Server)		N/A	N/A	N/A
System Event/Error Log		N/A	N/A	N/A
NTP/LLDP		N/A	N/A	N/A
Cable Diagnostics		N/A	N/A	N/A
IPv6 Configuration		N/A	N/A	N/A
Port Mirroring		N/A	N/A	N/A
<b>Mechanical</b>				
Power Input		100~240V AC, 56 V/65 W Power Adapter	100~240V AC, 56 V/65 W Power Adapter	100~240V AC
Dimensions		24 x 130 x 98 mm (0.9 x 5.1 x 3.9 in)	24 x 130 x 98 mm (0.9 x 5.1 x 3.9 in)	32 x 168 x 94 mm (1.3 x 6.6 x 3.7 in)
DIP Switch		N/A	N/A	Y
LED		Power, PoE, Link/Act	Power, PoE, Link/Act	Power, PoE, Link/Act
Operating Temperature		0~40 °C (32~104 °F)	0~40 °C (32~104 °F)	0~40 °C (32~104 °F)
Operating Humidity		10 to 90% (non-condensing)	10 to 90% (non-condensing)	10 to 90% (non-condensing)
Weight		0.3 kg (0.66 lb)	0.3 kg (0.66 lb)	0.5 kg (1.10 lb)
Certification		FCC Class A, CE	FCC Class A, CE	CE, FCC Class A, RoHS
<b>Standard</b>				
IEEE 802.3 – 10BaseT		Y	Y	Y



IEEE 802.3u - 100BaseTX	Y	Y	Y
IEEE 802.3ab - 1000BaseT	N/A	N/A	N/A
IEEE 802.3z 1000BaseSX/LX	N/A	N/A	N/A
IEEE 802.3af Power over Ethernet (PoE)	Y	Y	N/A
IEEE 802.3at Power over Ethernet (PoE+)	Y	Y	Y
IEEE 802.3az - Energy Efficient Ethernet (EEE)	N/A	N/A	N/A
IEEE 802.3x - Flow Control	Y	Y	Y
IEEE 802.1Q - VLAN	N/A	N/A	N/A
IEEE 802.1v - Protocol VLAN	N/A	N/A	N/A
IEEE 802.1p - Class of Service	N/A	N/A	N/A
IEEE 802.1D - Spanning Tree	N/A	N/A	N/A
IEEE 802.1w - Rapid Spanning Tree	N/A	N/A	N/A
IEEE 802.1s - Multiple Spanning Tree	N/A	N/A	N/A
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	N/A	N/A	N/A
IEEE 802.1AB - LLDP (Link Layer Discovery Protocol)	N/A	N/A	N/A
IEEE 802.1X - Access Control	N/A	N/A	N/A
<b>Industry Standard</b>			
Alarm Contact	N/A	N/A	N/A
Reverse Polarity Protection	N/A	N/A	N/A
Casing	N/A	N/A	N/A
EMI	N/A	N/A	N/A
EMS	N/A	N/A	N/A
Shock Compliance	N/A	N/A	N/A
Free Fall Compliance	N/A	N/A	N/A
Vibration Compliance	N/A	N/A	N/A



	GV-POE0800	GV-POE0810	GV-APOE0810	GV-APOE0810-V2
<b>Interface</b>				
10/100M RJ45 PoE Ports	8	N/A	N/A	N/A
10/100M RJ45 Uplink Port	N/A	N/A	N/A	N/A
10/100/1000M RJ45 PoE Ports	N/A	8	8	8
Dedicated 10/100/1000M RJ45 Uplink Ports	N/A	N/A	2	2
Dedicated 1000 Base-SX/LX SFP Ports	N/A	N/A	N/A	N/A
10/100/1000M RJ45 & 1000Base-SX/LX SFP Combo Ports	N/A	N/A	N/A	N/A
Total Ports	8	8	10	10
<b>System Performance</b>				
Packet Buffer	1.625 Mbits	1.37 Mbits	2 Mbits	2 Mbits
MAC Address Table Size	4 K	8 K	8 K	2 K
Switching Capacity	1.6 Gbps	16 Gbps	20 Gbps	20 Gbps
Forwarding Rate	1.19 Mpps	11.9 Mpps	13.4 Mpps	13.4 Mpps
Transmission Method: Store and Forward	Y	Y	Y	Y
<b>PoE Features</b>				
IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3at	IEEE 802.3at
Number of PSE Ports	8	8	8	8
PoE Power Budget	126 W	122 W	120 W	120 W
Max. Total Power Consumption	130 W	130 W	125 W	125 W
External/Internal	Internal	Internal	Internal	Internal
Power Feeding Detecting Capability on PD	Y	Y	Y	Y
PD Alive Check	N/A	N/A	N/A	Y
Power Management (per port)	Enable/Disable PoE Per Port	N/A	N/A	N/A
	Overloading Protection	Y	Y	Y
	Priority Setting Per Port	N/A	N/A	N/A
	Power Level Setting Per Port	N/A	N/A	N/A
PoE Mode	Mode A	Mode A: Ports 2, 4, 6, 8 Mode B: Ports 1, 3, 5, 7	Mode A	Mode A
<b>L2 Features</b>				
Auto-negotiation	Y	Y	Y	Y
Auto MDI/MDIX	Y	Y	Y	Y
Flow Control (duplex)	802.3x (Full)	Y	Y	Y
	Back-Pressure (Half)	Y	Y	Y
Spanning Tree	IEEE 802.1D (STP)	N/A	N/A	N/A
	IEEE 802.1w (RSTP)	N/A	N/A	N/A
	IEEE 802.1s (MSTP)	N/A	N/A	N/A
VLAN	VLAN Group	N/A	N/A	Y
	Tagged Based	N/A	N/A	N/A
	Port-based	N/A	N/A	N/A
	Voice VLAN	N/A	N/A	N/A
Link Aggregation	IEEE 802.3ad with LACP	N/A	N/A	N/A
	Static Trunk	N/A	N/A	N/A
	Max. LACP Link Aggregation Group	N/A	N/A	N/A
	Max. Port per Link Aggregation Group	N/A	N/A	N/A
IGMP Snooping	IGMP Snooping v1 / v2 /v3	N/A	N/A	N/A
	IGMP Static Multicast Addresses	N/A	N/A	N/A
	IPv6 MLD Snooping	N/A	N/A	N/A
IGMP Snooping	MLD Static Multicast Addresses	N/A	N/A	N/A





	Querier, Immediate Leave	N/A	N/A	N/A	N/A
Storm Control (Broadcast/Multicast/Unknown Unicast)		N/A	N/A	N/A	N/A
Jumbo Frame Support		N/A	N/A	N/A	N/A
<b>IPv6 Support</b>					
Dual IPv6/IPv4 Stack		N/A	N/A	N/A	N/A
IPv6 Web/SSL		N/A	N/A	N/A	N/A
IPv6 SNMP		N/A	N/A	N/A	N/A
IPv6 Telnet Server/SSH		N/A	N/A	N/A	N/A
IPv6 Ping Trace Route		N/A	N/A	N/A	N/A
IPv6 RADIUS		N/A	N/A	N/A	N/A
IPv6 Protocol-based VLANs		N/A	N/A	N/A	N/A
IPv6 SNMP		N/A	N/A	N/A	N/A
IPv6 ACL/IPMC		N/A	N/A	N/A	N/A
<b>QoS Features</b>					
Number of priority queue		N/A	N/A	N/A	N/A
Rate Limiting	Ingress	N/A	N/A	N/A	N/A
	Egress	N/A	N/A	N/A	N/A
DiffServ (RFC2474 Remarking)		N/A	N/A	N/A	N/A
Scheduling (WRR, Strict, Hybrid)		N/A	N/A	N/A	N/A
CoS	IEEE 802.1p	N/A	N/A	N/A	N/A
	IP ToS precedence, IP DSCP	N/A	N/A	N/A	N/A
<b>Security</b>					
Management System User Name/Password Protection		N/A	N/A	N/A	N/A
User Privilege		N/A	N/A	N/A	N/A
Port Security (MAC-based)		N/A	N/A	N/A	N/A
IEEE 802.1x Port-based Access Control		N/A	N/A	N/A	N/A
ACL (L2/L3/L4)		N/A	N/A	N/A	N/A
IP Source Guard		N/A	N/A	N/A	N/A
RADIUS (Authentication, Authorization, Accounting)		N/A	N/A	N/A	N/A
TACACS+		N/A	N/A	N/A	N/A
HTTP & SSL (Secured Web)		N/A	N/A	N/A	N/A
SSH v2.0 (Secured Telnet Session)		N/A	N/A	N/A	N/A
MAC/IP Filter		N/A	N/A	N/A	N/A
<b>Management</b>					
Command Line Interface (CLI)		N/A	N/A	N/A	N/A
Web Based Management		N/A	N/A	N/A	N/A
Telnet		N/A	N/A	N/A	N/A
Access Management Filtering		N/A	N/A	N/A	N/A
Firmware Upgrade via HTTP		N/A	N/A	N/A	N/A
Dual Firmware Images		N/A	N/A	N/A	N/A
Configuration Download/Upload		N/A	N/A	N/A	N/A
SNMP (v1 / v2c / v3)		N/A	N/A	N/A	N/A
RMON (1, 2, 3 & 9 groups)		N/A	N/A	N/A	N/A
DHCP (Client/Relay/Option82/Snooping/Server)		N/A	N/A	N/A	N/A
System Event/Error Log		N/A	N/A	N/A	N/A
NTP/LLDP		N/A	N/A	N/A	N/A
Cable Diagnostics		N/A	N/A	N/A	N/A
IPv6 Configuration		N/A	N/A	N/A	N/A
Port Mirroring		N/A	N/A	N/A	N/A
<b>Mechanical</b>					
Power Input		100~240V AC, 56 V/65 W Power Adapter	100~240V AC, 56 V/65 W Power Adapter	100~240V AC	100~240V AC
Dimensions		44 x 266 x 160 mm (1.7 x 10.5 x 6.3 in)	44 x 266 x 160 mm (1.7 x 10.5 x 6.3 in)	44 x 220 x 150 mm (1.7 x 8.7 x 5.9 in)	44 x 220 x 150 mm (1.7 x 8.7 x 5.9 in)
DIP Switch		N/A	N/A	Y	Y
LED		Power, PoE, Link/Act	Power, PoE, Link/Act	Power, PoE, Link/Act	Power, PoE, Link/Act
Operating Temperature		0~40 °C (32~104 °F)	0~40 °C (32~104 °F)	0~40 °C (32~104 °F)	0~40 °C (32~104 °F)
Operating Humidity		10 to 90% (non-condensing)	10 to 90% (non-condensing)	10 to 90% (non-condensing)	10 to 90% (non-condensing)
Weight		1.6 kg (3.53 lb)	0.95 kg (2.09 lb)	1.24 kg (2.73 lb)	1.24 kg (2.73 lb)
Certification		FCC Class A, CE	FCC Class A, CE	CE, FCC Class A, RoHS	CE, FCC Class A, RoHS
<b>Standard</b>					



IEEE 802.3 – 10BaseT	Y	Y	Y	Y
IEEE 802.3u - 100BaseTX	Y	Y	Y	Y
IEEE 802.3ab - 1000BaseT	Y	Y	Y	Y
IEEE 802.3z 1000BaseSX/LX	N/A	N/A	N/A	N/A
IEEE 802.3af Power over Ethernet (PoE)	Y	Y	N/A	N/A
IEEE 802.3at Power over Ethernet (PoE+)	Y	Y	Y	Y
IEEE 802.3az - Energy Efficient Ethernet (EEE)	N/A	N/A	N/A	Y
IEEE 802.3x - Flow Control	Y	Y	Y	Y
IEEE 802.1Q - VLAN	N/A	N/A	N/A	N/A
IEEE 802.1v - Protocol VLAN	N/A	N/A	N/A	N/A
IEEE 802.1p - Class of Service	N/A	N/A	N/A	N/A
IEEE 802.1D - Spanning Tree	N/A	N/A	N/A	N/A
IEEE 802.1w - Rapid Spanning Tree	N/A	N/A	N/A	N/A
IEEE 802.1s - Multiple Spanning Tree	N/A	N/A	N/A	N/A
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	N/A	N/A	N/A	N/A
IEEE 802.1AB - LLDP (Link Layer Discovery Protocol)	N/A	N/A	N/A	N/A
IEEE 802.1X - Access Control	N/A	N/A	N/A	N/A
<b>Industry Standard</b>				
Alarm Contact	N/A	N/A	N/A	N/A
Reverse Polarity Protection	N/A	N/A	N/A	N/A
Casing	N/A	N/A	N/A	N/A
EMI	N/A	N/A	N/A	N/A
EMS	N/A	N/A	N/A	N/A
Shock Compliance	N/A	N/A	N/A	N/A
Free Fall Compliance	N/A	N/A	N/A	N/A
Vibration Compliance	N/A	N/A	N/A	N/A

**Note:** Specifications are subject to change without notice.



## Industrial Switch

	GV-POE0410-E	GV-POE0410-E-V2
<b>Interface</b>		
10/100M RJ45 PoE Ports	N/A	N/A
10/100M RJ45 Uplink Port	N/A	N/A
10/100/1000M RJ45 PoE Ports	4	4
Dedicated 10/100/1000M RJ45 Uplink Ports	N/A	N/A
Dedicated 1000 Base-SX/LX SFP Ports	1	2
10/100/1000M RJ45 & 1000Base-SX/LX SFP Combo Ports	N/A	N/A
Total Ports	5	6
<b>System Performance</b>		
Packet Buffer	1 Mbits	128 KB
MAC Address Table Size	2 K	2 K
Switching Capacity	10 Gbps	12 Gbps
Forwarding Rate	7.44 Mpps	8.93 Mpps
Transmission Method: Store and Forward	Y	Y
<b>PoE Features</b>		
IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at
Number of PSE Ports	4	4
PoE Power Budget	120 W	120 W
Max. Total Power Consumption	130 W	127 W
External/Internal	External	External
Power Feeding Detecting Capability on PD	Y	Y
PD Alive Check	N/A	N/A
Power Management (per port)	Enable/Disable PoE Per Port	N/A
	Overloading Protection	Y
	Priority Setting Per Port	N/A
	Power Level Setting Per Port	N/A
PoE Mode	Mode A: Ports 2, 4 Mode B: Ports 1, 3	Mode A: Ports 2, 4 Mode B: Ports 1, 3
<b>L2 Features</b>		
Auto-negotiation	Y	Y
Auto MDI/MDIX	Y	Y
Flow Control (duplex)	802.3x (Full)	Y
	Back-Pressure (Half)	Y
Spanning Tree	IEEE 802.1D (STP)	N/A
	IEEE 802.1w (RSTP)	N/A
	IEEE 802.1s (MSTP)	N/A
VLAN	VLAN Group	N/A
	Tagged Based	N/A
	Port-based	N/A
	Voice VLAN	N/A
Link Aggregation	IEEE 802.3ad with LACP	N/A
	Static Trunk	N/A
	Max. LACP Link Aggregation Group	N/A
	Max. Port per Link Aggregation Group	N/A
IGMP Snooping	IGMP Snooping v1 / v2 / v3	N/A
	IGMP Static Multicast Addresses	N/A
	IPv6 MLD Snooping	N/A
	MLD Static Multicast Addresses	N/A



	Querier, Immediate Leave	N/A	N/A
Storm Control (Broadcast/Multicast/Unknown Unicast)		N/A	N/A
Jumbo Frame Support		N/A	N/A
<b>IPv6 Support</b>			
Dual IPv6/IPv4 Stack		N/A	N/A
IPv6 Web/SSL		N/A	N/A
IPv6 SMTP		N/A	N/A
IPv6 Telnet Server/SSH		N/A	N/A
IPv6 Ping Trace Route		N/A	N/A
IPv6 RADIUS		N/A	N/A
IPv6 Protocol-based VLANs		N/A	N/A
IPv6 SNMP		N/A	N/A
IPv6 ACL/IPMC		N/A	N/A
<b>QoS Features</b>			
Number of priority queue		N/A	N/A
Rate Limiting	Ingress	N/A	N/A
	Egress	N/A	N/A
DiffServ (RFC2474 Remarking)		N/A	N/A
Scheduling (WRR, Strict, Hybrid)		N/A	N/A
CoS	IEEE 802.1p	N/A	N/A
	IP ToS		
	precedence, IP DSCP	N/A	N/A
<b>Security</b>			
Management System User Name/Password Protection		N/A	N/A
User Privilege		N/A	N/A
Port Security (MAC-based)		N/A	N/A
IEEE 802.1x Port-based Access Control		N/A	N/A
ACL (L2/L3/L4)		N/A	N/A
IP Source Guard		N/A	N/A
RADIUS (Authentication, Authorization, Accounting)		N/A	N/A
TACACS+		N/A	N/A
HTTP & SSL (Secured Web)		N/A	N/A
SSH v2.0 (Secured Telnet Session)		N/A	N/A
MAC/IP Filter		N/A	N/A
<b>Management</b>			
Command Line Interface (CLI)		N/A	N/A
Web Based Management		N/A	N/A
Telnet		N/A	N/A
Access Management Filtering		N/A	N/A
Firmware Upgrade via HTTP		N/A	N/A
Dual Firmware Images		N/A	N/A
Configuration Download/Upload		N/A	N/A
SNMP (v1 / v2c / v3)		N/A	N/A
RMON (1, 2, 3 & 9 groups)		N/A	N/A
DHCP (Client/Relay/Option82/Snooping/Server)		N/A	N/A
System Event/Error Log		N/A	N/A
NTP/LLDP		N/A	N/A
Cable Diagnostics		N/A	N/A
IPv6 Configuration		N/A	N/A
Port Mirroring		N/A	N/A
<b>Mechanical</b>			
Power Input	1 Removable 6-pin Terminal Block		1 Removable 6-pin Terminal Block
Dimensions	120 x 55 x 108 mm (4.7 x 2.2 x 4.3 in)		120 x 55 x 108 mm (4.7 x 2.2 x 4.3 in)
DIP Switch	Switch 1~5: Port 1~5 disconnect alarm Switch 6 : Power input alarm		Switch 1~6: Port 1~6 disconnect alarm Switch 9: Power input alarm
LED	PW1, PW2, ALARM, PoE, Link/Act, SFP		PW1, PW2, ALARM, PoE Link/Act, SFP1, SFP2
Operating Temperature	-40 ~ 70°C (-40 ~ 158 °F)		-40 ~ 75°C (-40 ~ 167 °F)
Operating Humidity	5 ~ 90% (non-condensing)		5 ~ 90% (non-condensing)
Weight	0.7 kg (1.54 lb)		0.62 kg (1.37 lb)
Certification	CE, FCC Class A IEC61000-4-5 (Surge) Lv.5: Line to Line 4 kV, Line to Ground 6 kV at DC-In and Line to Ground 6kV at RJ-45 ports		CE, FCC Class A IEC61000-4-5 (Surge) Lv.5: Line to Line 4 kV, Line to Ground 6 kV at DC-In and Line to Ground 6kV at RJ-45 ports



Standard		
IEEE 802.3 – 10BaseT	Y	Y
IEEE 802.3u - 100BaseTX	Y	Y
IEEE 802.3ab - 1000BaseT	Y	Y
IEEE 802.3z 1000BaseSX/LX	Y	Y
IEEE 802.3af Power over Ethernet (PoE)	Y	Y
IEEE 802.3at Power over Ethernet (PoE+)	Y	Y
IEEE 802.3az - Energy Efficient Ethernet (EEE)	Y	Y
IEEE 802.3x - Flow Control	Y	Y
IEEE 802.1Q - VLAN	N/A	N/A
IEEE 802.1v - Protocol VLAN	N/A	N/A
IEEE 802.1p - Class of Service	N/A	N/A
IEEE 802.1D - Spanning Tree	N/A	N/A
IEEE 802.1w - Rapid Spanning Tree	N/A	N/A
IEEE 802.1s - Multiple Spanning Tree	N/A	N/A
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	N/A	N/A
IEEE 802.1AB - LLDP (Link Layer Discovery Protocol)	N/A	N/A
IEEE 802.1X - Access Control	N/A	N/A
Industry Standard		
Alarm Contact	1 relay output with current carrying capacity of 1A @ 24 V DC	1 relay output with current carrying capacity of 1A @ 24 V DC
Reverse Polarity Protection	IP31, Aluminum Alloy case	IP31, Aluminum Alloy case
Casing	EN55022 Class A, IEC61000-3-2, IEC 61000-3-3, FCC Part 15 Class A; VCCI Class A	EN55022 Class A, IEC61000-3-2, IEC 61000-3-3, FCC Part 15 Class A; VCCI Class A
EMI	IEC61000-4-2 (ESD) Lv.4, IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge) Lv.5: Line to Line 4 KV, Line to Ground 6 KV at DC-In and Line to Ground 6 KV at RJ-45 ports, IEC61000-4-6 (CS), IEC61000-4-8, IEC61000-4-11	IEC61000-4-2 (ESD) Lv.4, IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge) Lv.5: Line to Line 4 KV, Line to Ground 6 KV at DC-In and Line to Ground 6 KV at RJ-45 ports, IEC61000-4-6 (CS), IEC61000-4-8, IEC61000-4-11
EMS	IEC60068-2-27	IEC60068-2-27
Shock Compliance	IEC60068-2-32	IEC60068-2-32
Free Fall Compliance	IEC60068-2-6	IEC60068-2-6
Vibration Compliance	IEEE 2002/95/EC	IEEE 2002/95/EC

**Note:** Specifications are subject to change without notice.



## Gigabit Full Management L2+ Switch

		GV-POE0812
<b>Interface</b>		
10/100M RJ45 PoE Ports		N/A
10/100M RJ45 Uplink Port		N/A
10/100/1000M RJ45 PoE Ports		8
Dedicated 10/100/1000M RJ45 Uplink Ports		N/A
Dedicated 1000 Base-SX/LX SFP Ports		N/A
10/100/1000M RJ45 & 1000Base-SX/LX SFP Combo Ports		2
Total Ports		10
<b>System Performance</b>		
Packet Buffer		4 Mbits
MAC Address Table Size		8 K
Switching Capacity		20 Gbps
Forwarding Rate		14.88 Mpps
Transmission Method: Store and Forward		Y
<b>PoE Features</b>		
IEEE 802.3af/at		IEEE 802.3af/at
Number of PSE Ports		8
PoE Power Budget		119 W
Max. Total Power Consumption		130 W
External/Internal		Internal
Power Feeding Detecting Capability on PD		Y
PD Alive Check		Y
Power Management (per port)	Enable/Disable PoE Per Port	Y
	Overloading Protection	Y
	Priority Setting Per Port	Y
	Power Level Setting Per Port	Y
PoE Mode		Mode B
<b>L2 Features</b>		
Auto-negotiation		Y
Auto MDI/MDIX		Y
Flow Control (duplex)	802.3x (Full)	Y
	Back-Pressure (Half)	Y
Spanning Tree	IEEE 802.1D (STP)	Y
	IEEE 802.1w (RSTP)	Y
	IEEE 802.1s (MSTP)	Y
VLAN	VLAN Group	Y
	Tagged Based	Y
	Port-based	Y
	Voice VLAN	Voice VLAN with OUI
Link Aggregation	IEEE 802.3ad with LACP	Y
	Static Trunk	Y
	Max. LACP Link Aggregation Group	8
	Max. Port per Link Aggregation Group	5
IGMP Snooping	IGMP Snooping v1 / v2 / v3	Supports 1024 IGMP groups
	IGMP Static Multicast Addresses	Supports 1024 static multicast addresses
	IPv6 MLD Snooping	Supports 1024 MLD groups
	MLD Static Multicast Addresses	Supports 1024 static multicast addresses



	Querier, Immediate Leave		Y
Storm Control (Broadcast/Multicast/Unknown Unicast)			Y
Jumbo Frame Support			9.6 K
<b>IPv6 Support</b>			
Dual IPv6/IPv4 Stack			Y
IPv6 Web/SSL			Y
IPv6 SNTP			IPv6 NTP
IPv6 Telnet Server/SSH			Y
IPv6 Ping Trace Route			Y
IPv6 RADIUS			Y
IPv6 Protocol-based VLANs			Y
IPv6 SNMP			Y
IPv6 ACL/IPMC			Y
<b>QoS Features</b>			
Number of priority queue			8
Rate Limiting	Ingress		Y
	Egress		Y
DiffServ (RFC2474 Remarking)			Y
Scheduling (WRR, Strict, Hybrid)			Y
CoS	IEEE 802.1p		Y
	IP ToS		
	precedence, IP DSCP		Y
<b>Security</b>			
Management System User Name/Password Protection			Y
User Privilege			15 User Privilege Levels Available
Port Security (MAC-based)			Y
IEEE 802.1x Port-based Access Control			Y
ACL (L2/L3/L4)			Y
IP Source Guard			Y
RADIUS (Authentication, Authorization, Accounting)			Y
TACACS+			Y
HTTP & SSL (Secured Web)			Y
SSH v2.0 (Secured Telnet Session)			Y
MAC/IP Filter			Y
<b>Management</b>			
Command Line Interface (CLI)			Y
Web Based Management			Y
Telnet			Y
Access Management Filtering			Y
Firmware Upgrade via HTTP			Y
Dual Firmware Images			Y
Configuration Download/Upload			Y
SNMP (v1 / v2c / v3)			Y
RMON (1, 2, 3 & 9 groups)			Y
DHCP (Client/Relay/Option82/Snooping/Server)			Y
System Event/Error Log			Y
NTP/LLDP			Y
Cable Diagnostics			Y
IPv6 Configuration			Y
Port Mirroring			Y
<b>Mechanical</b>			
Power Input			100~240V AC
Dimensions			44 × 330 × 210 mm (1.7 × 13.8 × 8.3 in)
DIP Switch			N/A
LED			Power, PoE, Link/Act, SFP
Operating Temperature			0 ~ 40 °C (32 ~ 104 °F)
Operating Humidity			5~90% (non-condensing)
Weight			2.5 kg (5.51 lb)
Certification			CE, FCC Class A IEC 61000-4-5(Surge) Lv.5: Line to Line 2 kV, Line to Ground 6 kV
<b>Standard</b>			
IEEE 802.3 – 10BaseT			Y
IEEE 802.3u - 100BaseTX			Y



IEEE 802.3ab - 1000BaseT	Y
IEEE 802.3z 1000BaseSX/LX	Y
IEEE 802.3af Power over Ethernet (PoE)	Y
IEEE 802.3at Power over Ethernet (PoE+)	Y
IEEE 802.3az - Energy Efficient Ethernet (EEE)	Y
IEEE 802.3x - Flow Control	Y
IEEE 802.1Q - VLAN	Y
IEEE 802.1v - Protocol VLAN	Y
IEEE 802.1p - Class of Service	Y
IEEE 802.1D - Spanning Tree	Y
IEEE 802.1w - Rapid Spanning Tree	Y
IEEE 802.1s - Multiple Spanning Tree	Y
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	Y
IEEE 802.1AB - LLDP (Link Layer Discovery Protocol)	Y
IEEE 802.1X - Access Control	Y
<b>Industry Standard</b>	
Alarm Contact	N/A
Reverse Polarity Protection	N/A
Casing	N/A
EMI	N/A
EMS	N/A
Shock Compliance	N/A
Free Fall Compliance	N/A
Vibration Compliance	N/A

**Note:** Specifications are subject to change without notice.