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Web Smart L2 Switch

GV-POE0801, POE1601, POE1601-V2, POE2401, POE2401-V2

		GV-POE0801	GV-POE1601	GV-POE1601-V2	GV-POE2401	GV-POE2401-V2
Interface						
10/100M RJ-45 PoE Ports		8	16	16	24	24
10/100/1000M RJ-45 PoE Ports		N/A	N/A	N/A	N/A	N/A
Dedicated 10/100/1000M RJ-45 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 RJ-45 & 1000Base-SX/LX SFP Combo Ports		N/A	2	2	2	2
Total Ports		10	18	18	26	26
System Performance						
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
PoE Features						
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
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	Yes
	Overloading Protection	Yes	Yes	Yes	Yes	Yes
	Priority Setting Per Port	N/A	N/A	N/A	N/A	N/A
	Power Level Setting Per Port	N/A	N/A	N/A	N/A	N/A
PoE Mode		Mode B	Mode A	Mode B	Mode A	Mode B
L2 Features						
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	Yes
	Back-Pressure (Half)	Yes	Yes	Yes	Yes	Yes
Spanning Tree	IEEE 802.1D (STP)	Yes	Yes	Yes	Yes	Yes
	IEEE 802.1w (RSTP)	Yes	Yes	Yes	Yes	Yes
	IEEE 802.1s (MSTP)	N/A	N/A	N/A	N/A	N/A
VLAN	VLAN Group	Yes	Yes	Yes	Yes	Yes
	Tagged Based	Yes	Yes	Yes	Yes	Yes
	Port-based	Yes	Yes	Yes	Yes	Yes
	Voice VLAN	N/A	N/A	N/A	N/A	N/A
Link Aggregation	IEEE 802.3ad with LACP	Yes	Yes	Yes	Yes	Yes
	Static Trunk	Yes	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	IGMP Snooping v1 / v2 /v3	IGMP v1/v2	IGMP v1/v2	IGMP v1/v2	IGMP v1/v2	IGMP v1/v2
	IGMP Static Multicast Addresses	Yes	Yes	Yes	Yes	Yes
	IPv6 MLD Snooping	N/A	N/A	N/A	N/A	N/A
	MLD Static Multicast Addresses	N/A	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
QoS Features						
Number of priority queue		2	2	2	2	2
Rate Limiting	Ingress	N/A	N/A	N/A	N/A	N/A
	Egress	N/A	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	N/A
	IP ToS precedence, IP DSCP	Yes	Yes	Yes	Yes	Yes
Security						

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
Management					
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
Mechanical					
Power Input	100~240V AC	100~240V AC	100~240V AC	100~240V AC	100~240V AC
Dimensions	44 × 266 × 160 mm (1.7 x 10.5 x 6.3 in)	44 × 440 × 330 mm (1.7 x 17.3 x 13.0 in)	44 × 440 × 220 mm (1.7 x 17.3 x 8.7 in)	44 × 440 × 331 mm (1.7 x 17.3 x 13.0 in)	44 × 440 × 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
Standard					
IEEE 802.3i - 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 - Full-Duplex Ethernet 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 (CoS)	Yes	Yes	Yes	Yes	Yes
IEEE 802.1D - Spanning Tree Protocol (STP)	Yes	Yes	Yes	Yes	Yes
IEEE 802.1w - Rapid Spanning Tree Protocol (RSTP)	Yes	Yes	Yes	Yes	Yes
IEEE 802.1s - Multiple Spanning Tree Protocol (MSTP)	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 - Link Layer Discovery Protocol (LLDP)	N/A	N/A	N/A	N/A	N/A
IEEE 802.1X - Port-Based Network Access Control (PNAC)	N/A	N/A	N/A	N/A	N/A
Industry Standard					
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, POE0811-V2, APOE0811, APOE0811-V2

		GV-POE0811	GV-POE0811-V2	GV-APOE0811	GV-APOE0811-V2
Interface					
10/100M RJ-45 PoE Ports		N/A	N/A	N/A	N/A
10/100/1000M RJ-45 PoE Ports		8	8	8	8
Dedicated 10/100/1000M RJ-45 Uplink Ports		N/A	1	N/A	N/A
Dedicated 1000 Base-SX/LX SFP Ports		2	1	2	2
10/100/1000M RJ-45 & 1000Base-SX/LX SFP Combo Ports		N/A	N/A	N/A	N/A
Total Ports		10	10	10	10
System Performance					
Packet Buffer		144 KB	4 Mbits	4.1 Mbits	4.1 Mbits
MAC Address Table Size		8 K	8 K	8 K	8 K
Switching Capacity		16 Gbps	20 Gbps	20 Gbps	20 Gbps
Forwarding Rate		14.88 Mpps	14.88 Mpps	14.88 Mpps	14.88 Mpps
Transmission Method: Store and Forward		Y	Y	Y	Y
PoE Features					
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	8	8	8
PoE Power Budget		118 W	118 W	140 W	140 W
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	Y
	Overloading Protection	Y	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 B	Mode A	Mode A	Mode A
L2 Features					
Auto-negotiation		Y	Y	Y	Y
Auto MDI/MDIX		Y	Y	Y	Y
Flow Control (duplex)	802.3x (Full)	Y	Y	Y	Y
	Back-Pressure (Half)	Y	Y	Y	Y
Spanning Tree	IEEE 802.1D (STP)	Y	N/A	Y	Y
	IEEE 802.1w (RSTP)	Y	N/A	Y	Y
	IEEE 802.1s (MSTP)	N/A	N/A	Y	Y
VLAN	VLAN Group	Y	Y	Y	Y
	Tagged Based	Y	Y	Y	Y
	Port-based	Y	Y	Y	Y
	Voice VLAN	N/A	N/A	Y	Y
Link Aggregation	IEEE 802.3ad with LACP	Y	N/A	Y	Y
	Static Trunk	Y	Y	Y	Y
	Max. LACP Link Aggregation Group	4	4	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 v1/v2/v3
	IGMP Static Multicast Addresses	Y	Y	Y	Y
	IPv6 MLD Snooping	N/A	N/A	Y	Y
	MLD Static Multicast Addresses	N/A	N/A	Y	Y
	Querier, Immediate Leave	N/A	N/A	Y	Y
Storm Control (Broadcast/Multicast/ Unknown Unicast)		Y	Y	Y	Y
Jumbo Frame Support		9.6K	9.6K	9.6K	9.6K
QoS Features					
Number of priority queue		8	8	8	8
Rate Limiting	Ingress	Y	N/A	Y	Y
	Egress	Y	N/A	Y	Y
DiffServ (RFC2474 Remarking)		N/A	N/A	N/A	N/A
Scheduling (WRR, Strict, Hybrid)		Y	N/A	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)	N/A	N/A	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	N/A	N/A	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	N/A	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	LLDP	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 × 440 × 220 mm (1.7 x 10.5 x 8.7 in)	44 × 266× 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”)	44 x 280 x 180 mm (1.73” x 11.02” x 7.08”)
DIP Switch	N/A	N/A	N/A	N/A
LED	Power, PoE, Link/Act, 1000M	Power, PoE, Link/Act	Power, PoE, Link/Act, Sys	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)	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	3 kg (6.61 lb)	1.8 kg (3.96 lb)	1.68 kg (3.7 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, IEC 61000-4-5 Lv.5	CE, FCC Class A, RoHS compliant, IEC 61000-4-5 Lv.5
Standard				
IEEE 802.3i - 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	Y	N/A	N/A
IEEE 802.3x - Full-Duplex Ethernet 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 (CoS)	Y	Y	Y	Y
IEEE 802.1D - Spanning Tree Protocol (STP)	Y	N/A	Y	Y
IEEE 802.1w - Rapid Spanning Tree Protocol (RSTP)	Y	N/A	Y	Y
IEEE 802.1s - Multiple Spanning Tree Protocol (MSTP)	N/A	Y	Y	Y
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	Y	N/A	Y	Y
IEEE 802.1AB - Link Layer Discovery Protocol (LLDP)	N/A	Y	Y	Y
IEEE 802.1X - Port-Based Network Access Control (PNAC)	N/A	N/A	Y	Y
Industry Standard				
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-POE1611, POE1611-V2, APOE1611, APOE1611-V2

		GV-POE1611	GV-POE1611-V2	GV-APOE1611	GV-APOE1611-V2
Interface					
10/100M RJ-45 PoE Ports		N/A	N/A	N/A	N/A
10/100/1000M RJ-45 PoE Ports		16	16	16	16
Dedicated 10/100/1000M RJ-45 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 RJ-45 & 1000Base-SX/LX SFP Combo Ports		4 (Port 1~4)	4 (Port 1~4)	N/A	2 (Port 17~18)
Total Ports		16	20	18	20
System Performance					
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
PoE Features					
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
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	Y
	Overloading Protection	Y	Y	Y	Y
	Priority Setting Per Port	N/A	N/A	Y	Y
	Power Level Setting Per Port	N/A	N/A	Y	Y
PoE Mode		Mode A	Mode A	Mode A	Mode A
L2 Features					
Auto-negotiation		Y	Y	Y	Y
Auto MDI/MDIX		Y	Y	Y	Y
Flow Control (duplex)	802.3x (Full)	Y	Y	Y	Y
	Back-Pressure (Half)	Y	Y	Y	Y
Spanning Tree	IEEE 802.1D (STP)	Y	Y	Y	Y
	IEEE 802.1w (RSTP)	Y	Y	Y	Y
	IEEE 802.1s (MSTP)	N/A	N/A	Y	Y
VLAN	VLAN Group	Y	Y	Y	Y
	Tagged Based	Y	Y	Y	Y
	Port-based	Y	Y	Y	Y
	Voice VLAN	N/A	N/A	Y	Y
Link Aggregation	IEEE 802.3ad with LACP	Y	Y	Y	Y
	Static Trunk	Y	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 v1/v2/v3
	IGMP Static Multicast Addresses	Y	Y	Y	Y
	IPv6 MLD Snooping	N/A	N/A	Y	Y
	MLD Static Multicast Addresses	N/A	N/A	Y	Y
	Querier, Immediate Leave	N/A	N/A	Y	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 × 440 × 331 mm (1.7 x 10.5 x 13.0 in)	44 × 440 × 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°F ~ 88°F)	0°C ~ 40°C (32°F ~ 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, IEC 61000-4-5 Lv.5	CE, FCC Class A, RoHS compliant, IEC 61000-4-5 Lv.5
Standard				
IEEE 802.3i - 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 - Full-Duplex Ethernet 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 (CoS)	Y	Y	Y	Y
IEEE 802.1D - Spanning Tree Protocol (STP)	Y	Y	Y	Y
IEEE 802.1w - Rapid Spanning Tree Protocol (RSTP)	Y	Y	Y	Y
IEEE 802.1s - Multiple Spanning Tree Protocol (MSTP)	N/A	N/A	Y	Y
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	Y	Y	Y	Y
IEEE 802.1AB - Link Layer Discovery Protocol (LLDP)	N/A	N/A	Y	Y
IEEE 802.1X - Port-Based Network Access Control (PNAC)	Y	Y	Y	Y
Industry Standard				
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, POE2411-V2, APOE2411, APOE2411-V2

		GV-POE2411	GV-POE2411-V2	GV-APOE2411	GV-APOE2411-V2
Interface					
10/100M RJ-45 PoE Ports		N/A	N/A	N/A	N/A
10/100/1000M RJ-45 PoE Ports		24	24	24	24
Dedicated 10/100/1000M RJ-45 Uplink Ports		N/A	N/A	N/A	N/A
Dedicated 1000 Base-SX/LX SFP Ports		N/A	N/A	4	2
10/100/1000M RJ-45 & 1000Base-SX/LX SFP Combo Ports		4 (Port 1~4)	4 (Port 1~4)	N/A	2 (Port 25~26)
Total Ports		24	28	28	28
System Performance					
Packet Buffer		500 KB	500 KB	4 Mbits	4 Mbits
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
PoE Features					
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
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	Y
	Overloading Protection	Y	Y	Y	Y
	Priority Setting Per Port	N/A	N/A	Y	Y
	Power Level Setting Per Port	N/A	N/A	Y	Y
PoE Mode		Mode A	Mode A	Mode A	Mode A
L2 Features					
Auto-negotiation		Y	Y	Y	Y
Auto MDI/MDIX		Y	Y	Y	Y
Flow Control (duplex)	802.3x (Full)	Y	Y	Y	Y
	Back-Pressure (Half)	Y	Y	Y	Y
Spanning Tree	IEEE 802.1D (STP)	Y	Y	Y	Y
	IEEE 802.1w (RSTP)	Y	Y	Y	Y
	IEEE 802.1s (MSTP)	N/A	N/A	Y	Y
VLAN	VLAN Group	Y	Y	Y	Y
	Tagged Based	Y	Y	Y	Y
	Port-based	Y	Y	Y	Y
	Voice VLAN	N/A	N/A	Y	Y
Link Aggregation	IEEE 802.3ad with LACP	Y	Y	Y	Y
	Static Trunk	Y	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 v1/v2/v3
	IGMP Static Multicast Addresses	Y	Y	Y	Y
	IPv6 MLD Snooping	N/A	N/A	Y	Y
	MLD Static Multicast Addresses	N/A	N/A	Y	Y
	Querier, Immediate Leave	N/A	N/A	Y	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 × 440 × 331 mm (1.7 x 10.5 x 13.0 in)	44 × 440 × 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, IEC 61000-4-5 Lv.5	CE, FCC Class A, RoHS compliant, IEC 61000-4-5 Lv.5
Standard				
IEEE 802.3i - 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 - Full-Duplex Ethernet 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 (CoS)	Y	Y	Y	Y
IEEE 802.1D - Spanning Tree Protocol (STP)	Y	Y	Y	Y
IEEE 802.1w - Rapid Spanning Tree Protocol (RSTP)	Y	Y	Y	Y
IEEE 802.1s - Multiple Spanning Tree Protocol (MSTP)	N/A	N/A	Y	Y
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	Y	Y	Y	Y
IEEE 802.1AB - Link Layer Discovery Protocol (LLDP)	N/A	N/A	Y	Y
IEEE 802.1X - Port-Based Network Access Control (PNAC)	Y	Y	Y	Y
Industry Standard				
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.

Easy Web Smart Switch

GV-APOE081C, APOE161C, APOE241C

		GV-APOE081C	GV-APOE161C	GV-APOE241C
Interface				
10/100M RJ-45 PoE Ports		N/A	N/A	N/A
10/100/1000M RJ-45 PoE Ports		8	16	24
Dedicated 10/100/1000M RJ-45 Uplink Ports		N/A	N/A	2
Dedicated 1000 Base-SX/LX SFP Ports		2	2	2
10/100/1000M RJ-45 & 1000Base-SX/LX SFP Combo Ports		N/A	N/A	N/A
Total Ports		10	18	28
System Performance				
Packet Buffer		4.1 Mbits	4.1 Mbits	4.1 Mbits
MAC Address Table Size		8 K	8 K	8 K
Switching Capacity		20 Gbps	36 Gbps	56 Gbps
Forwarding Rate		14.88 Mpps	26.78 Mpps	41.66 Mpps
Transmission Method: Store and Forward		Y	Y	Y
PoE Features				
IEEE 802.3af/at		IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at
Number of PSE Ports		8	16	24
PoE Power Budget		120 W	250 W	250 W
Power Feeding Detecting Capability on PD		Y	Y	Y
PD Alive Check		Y	Y	Y
Power Management (per port)	Enable/Disable PoE Per Port	Y	Y	Y
	Overloading Protection	Y	Y	Y
	Priority Setting Per Port	Y	Y	Y
	Power Level Setting Per Port	Y	Y	Y
PoE Mode		Mode A	Mode A	Mode A
L2 Features				
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	Y	Y	Y
	Tagged Based	N/A	N/A	N/A
	Port-based	Y	Y	Y
	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	IGMP v1/v2	IGMP v1/v2	IGMP v1/v2
	IGMP Static Multicast Addresses	N/A	N/A	N/A
	IPv6 MLD Snooping	N/A	N/A	N/A
	MLD Static Multicast Addresses	N/A	N/A	N/A
	Querier, Immediate Leave	N/A	N/A	N/A
Storm Control (Broadcast/Multicast/ Unknown Unicast)		Y	Y	Y
Jumbo Frame Support		9K	9K	9K
QoS Features				
Number of priority queue		8	8	8
Rate Limiting	Ingress	Y	Y	Y
	Egress	Y	Y	Y
DiffServ (RFC2474 Remarking)		Y	Y	Y
Scheduling (WRR, Strict, Hybrid)		Y	Y	Y
CoS	IEEE 802.1p	Y	Y	Y
	IP ToS precedence, IP DSCP	Y	Y	Y
Security				
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

Management			
Command Line Interface (CLI)	Y	Y	Y
Web Based Management	Y	Y	Y
Telnet	Y	Y	Y
Access Management Filtering	N/A	N/A	N/A
Firmware Upgrade via HTTP	Y	Y	Y
Dual Firmware Images	N/A	N/A	N/A
Configuration Download/Upload	Y	Y	Y
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)	DHCP Snooping Only	DHCP Snooping Only	DHCP Snooping Only
System Event/Error Log	N/A	N/A	N/A
NTP/LLDP	N/A	N/A	N/A
Cable Diagnostics	Y	Y	Y
IPv6 Configuration	N/A	N/A	N/A
Port Mirroring	Y	Y	Y
Mechanical			
Power Input	100~240V AC	100~240V AC	100~240V AC
Dimensions	220 x 150 x 44 mm (8.66” x 5.9” x 1.73”)	44 x 440 × 207 mm (1.73” x 17.32” x 8.14")	44 x 440 x 207 mm (1.73” x 17.32” x 8.14”)
DIP Switch	N/A	N/A	N/A
LED	Power, PoE, Link/Act, Sys	Power, PoE, Link/Act, Sys	Power, PoE, Link/Act, Sys
Operating Temperature	0°C ~ 40°C (32°F ~ 104°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)
Weight	1.23 kg (3.35 lb)	3.2 kg (7.05 lb)	3.2 kg (7.05 lb)
Certification	CE, FCC Class A, RoHS compliant, IEC 61000-4-5 Lv.5	CE, FCC Class A, RoHS compliant, IEC 61000-4-5 Lv.5	CE, FCC Class A, RoHS compliant, IEC 61000-4-5 Lv.5
Standard			
IEEE 802.3i - 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 Plus (PoE+)	Y	Y	Y
IEEE 802.3az - Energy-Efficient Ethernet (EEE)	N/A	N/A	N/A
IEEE 802.3x – Full Duplex Ethernet Flow Control	Y	Y	Y
IEEE 802.1Q - VLAN	Y	Y	Y
IEEE 802.1v - Protocol VLAN	N/A	N/A	N/A
IEEE 802.1p - Class of Service (CoS)	Y	Y	Y
IEEE 802.1D - Spanning Tree Protocol (STP)	N/A	N/A	N/A
IEEE 802.1w - Rapid Spanning Tree Protocol (RSTP)	N/A	N/A	N/A
IEEE 802.1s - Multiple Spanning Tree Protocol (MSTP)	N/A	N/A	N/A
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	N/A	N/A	N/A
IEEE 802.1AB - Link Layer Discovery Protocol (LLDP)	N/A	N/A	N/A
IEEE 802.1X - Port-Based Network Access Control (PNAC)	N/A	N/A	N/A
Industry Standard			
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.

Un-Management Switch

GV-POE0400, POE0400-V2, APOE0400

		GV-POE0400	GV-POE0400-V2	GV-APOE0400
Interface				
10/100M RJ-45 PoE Ports		4	4	4
10/100M RJ-45 Uplink Port		1	1	2
10/100/1000M RJ-45 PoE Ports		N/A	N/A	N/A
Dedicated 10/100/1000M RJ-45 Uplink Ports		N/A	N/A	N/A
Dedicated 1000 Base-SX/LX SFP Ports		N/A	N/A	N/A
10/100/1000M RJ-45 & 1000Base-SX/LX SFP Combo Ports		N/A	N/A	N/A
Total Ports		5	5	6
System Performance				
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
PoE Features				
IEEE 802.3af/at		IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at
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
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
L2 Features				
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
Storm Control (Broadcast/Multicast/ Unknown Unicast)		N/A	N/A	N/A
Jumbo Frame Support		N/A	N/A	N/A
IPv6 Support				
Dual IPv6/IPv4 Stack		N/A	N/A	N/A
IPv6 Web/SSL		N/A	N/A	N/A
IPv6 SNTP		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
QoS Features				
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 precedence, IP DSCP	N/A	N/A	N/A
Security				
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
Management				
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
Mechanical				
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 × 130 × 98 mm (0.9 x 5.1 x 3.9 in)	24 × 130 × 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, IEC 61000-4-5 Lv.5
Standard				
IEEE 802.3i - 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 - Full-Duplex Ethernet 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 (CoS)		N/A	N/A	N/A
IEEE 802.1D - Spanning Tree Protocol (STP)		N/A	N/A	N/A

IEEE 802.1w - Rapid Spanning Tree Protocol (RSTP)	N/A	N/A	N/A
IEEE 802.1s - Multiple Spanning Tree Protocol (MSTP)	N/A	N/A	N/A
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	N/A	N/A	N/A
IEEE 802.1AB - Link Layer Discovery Protocol (LLDP)	N/A	N/A	N/A
IEEE 802.1X - Port-Based Network Access Control (PNAC)	N/A	N/A	N/A
Industry Standard			
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, POE0810, APOE0810, APOE0810-V2

		GV-POE0800	GV-POE0810	GV-APOE0810	GV-APOE0810-V2
Interface					
10/100M RJ-45 PoE Ports		8	N/A	N/A	N/A
10/100M RJ-45 Uplink Port		N/A	N/A	N/A	N/A
10/100/1000M RJ-45 PoE Ports		N/A	8	8	8
Dedicated 10/100/1000M RJ-45 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 RJ-45 & 1000Base-SX/LX SFP Combo Ports		N/A	N/A	N/A	N/A
Total Ports		8	8	10	10
System Performance					
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
PoE Features					
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	8	8	8
PoE Power Budget		126 W	122 W	120 W	120 W
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	N/A
	Overloading Protection	Y	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: Ports 2, 4, 6, 8 Mode B: Ports 1, 3, 5, 7	Mode A	Mode A
L2 Features					
Auto-negotiation		Y	Y	Y	Y
Auto MDI/MDIX		Y	Y	Y	Y
Flow Control (duplex)	802.3x (Full)	Y	Y	Y	Y
	Back-Pressure (Half)	Y	Y	Y	Y
Spanning Tree	IEEE 802.1D (STP)	N/A	N/A	N/A	N/A
	IEEE 802.1w (RSTP)	N/A	N/A	N/A	N/A
	IEEE 802.1s (MSTP)	N/A	N/A	N/A	N/A
VLAN	VLAN Group	N/A	N/A	Y	Y
	Tagged Based	N/A	N/A	N/A	N/A
	Port-based	N/A	N/A	N/A	N/A
	Voice VLAN	N/A	N/A	N/A	N/A
Link Aggregation	IEEE 802.3ad with LACP	N/A	N/A	N/A	N/A
	Static Trunk	N/A	N/A	N/A	N/A
	Max. LACP Link Aggregation Group	N/A	N/A	N/A	N/A
	Max. Port per Link Aggregation Group	N/A	N/A	N/A	N/A
IGMP Snooping	IGMP Snooping v1 / v2 /v3	N/A	N/A	N/A	N/A
	IGMP Static Multicast Addresses	N/A	N/A	N/A	N/A
	IPv6 MLD Snooping	N/A	N/A	N/A	N/A
IGMP Snooping	MLD Static Multicast Addresses	N/A	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
IPv6 Support					
Dual IPv6/IPv4 Stack		N/A	N/A	N/A	N/A
IPv6 Web/SSL		N/A	N/A	N/A	N/A
IPv6 SNTP		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
QoS Features					
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
Security					
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
Management					
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
Mechanical					
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 × 266 × 160 mm (1.7 x 10.5 x 6.3 in)	44 × 266 × 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, IEC 61000-4-5 Lv.5	CE, FCC Class A, RoHS, IEC 61000-4-5 Lv.5
Standard					
IEEE 802.3i - 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 - Full-Duplex Ethernet 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 (CoS)		N/A	N/A	N/A	N/A
IEEE 802.1D - Spanning Tree Protocol (STP)		N/A	N/A	N/A	N/A

IEEE 802.1w - Rapid Spanning Tree Protocol (RSTP)	N/A	N/A	N/A	N/A
IEEE 802.1s - Multiple Spanning Tree Protocol (MSTP)	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 - Link Layer Discovery Protocol (LLDP)	N/A	N/A	N/A	N/A
IEEE 802.1X - Port-Based Network Access Control (PNAC)	N/A	N/A	N/A	N/A
Industry Standard				
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, POE0410-E-V2, APOE0410-E

		GV-POE0410-E	GV-POE0410-E-V2	GV-APOE0410-E
Interface				
10/100M RJ-45 PoE Ports		N/A	N/A	N/A
10/100M RJ-45 Uplink Port		N/A	N/A	N/A
10/100/1000M RJ-45 PoE Ports		4	4	4
Dedicated 10/100/1000M RJ-45 Uplink Ports		N/A	N/A	N/A
Dedicated 1000 Base-SX/LX SFP Ports		1	2	2
10/100/1000M RJ-45 & 1000Base-SX/LX SFP Combo Ports		N/A	N/A	N/A
Total Ports		5	6	6
System Performance				
Packet Buffer		1 Mbits	128 KB	1.5 Mb
MAC Address Table Size		2 K	2 K	4 K
Switching Capacity		10 Gbps	12 Gbps	12 Gbps
Forwarding Rate		7.44 Mpps	8.93 Mpps	8.93 Mpps
Transmission Method: Store and Forward		Y	Y	Y
PoE Features				
IEEE 802.3af/at		IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at
Number of PSE Ports		4	4	4
PoE Power Budget		120 W	120 W	120 W
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	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: Ports 2, 4 Mode B: Ports 1, 3	Mode A: Ports 2, 4 Mode B: Ports 1, 3	Mode A
L2 Features				
Auto-negotiation		Y	Y	N/A
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	Y
	Tagged Based	N/A	N/A	Y
	Port-based	N/A	N/A	Y
	Voice VLAN	N/A	N/A	Y
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
	MLD Static Multicast Addresses	N/A	N/A	N/A
	Querier, Immediate Leave	N/A	N/A	N/A
Storm Control (Broadcast/Multicast/ Unknown Unicast)		N/A	N/A	N/A
Jumbo Frame Support		N/A	N/A	9 KB
IPv6 Support				
Dual IPv6/IPv4 Stack		N/A	N/A	N/A
IPv6 Web/SSL		N/A	N/A	N/A
IPv6 SNTP		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
QoS Features				
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 precedence, IP DSCP	N/A	N/A	N/A
Security				
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
Management				
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
Mechanical				
Power Input		44 ~ 57-V DC, 50 ~ 60 Hz	44 ~ 57-V DC, 50 ~ 60 Hz	48 ~ 57-V DC, 50 ~ 60 Hz
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)	110 x 90 x 46 mm (4.3” x 3.5” x 1.8”)
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	CCTV / VLAN
LED		PW1, PW2, ALARM, PoE, Link/Act, SFP	PW1, PW2, ALARM, PoE Link/Act, SFP1, SFP2	PoE, SFP 1, SFP 2, Power, DATA
Operating Temperature		-40 ~ 70°C (-40 ~ 158 °F)	-40 ~ 75°C (-40 ~ 167 °F)	-40 ~ 75°C (-40 ~ 167 °F)
Operating Humidity		5 ~ 90% (non-condensing)	5 ~ 90% (non-condensing)	5 ~ 90% (non-condensing)
Weight		0.7 kg (1.54 lb)	0.62 kg (1.37 lb)	0.62 kg (1.37 lb)
Certification		CE, FCC Class A, IEC 61000-4-5 (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, IEC 61000-4-5 (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, UKCA, IEC 61000-4-5 (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 802.3i - 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)		Y	Y	Y
IEEE 802.3x - Full-Duplex Ethernet Flow Control		Y	Y	Y
IEEE 802.1Q - VLAN		N/A	N/A	Y
IEEE 802.1v - Protocol VLAN		N/A	N/A	N/A

IEEE 802.1p - Class of Service (CoS)	N/A	N/A	N/A
IEEE 802.1D - Spanning Tree Protocol (STP)	N/A	N/A	N/A
IEEE 802.1w - Rapid Spanning Tree Protocol (RSTP)	N/A	N/A	N/A
IEEE 802.1s - Multiple Spanning Tree Protocol (MSTP)	N/A	N/A	N/A
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	N/A	N/A	N/A
IEEE 802.1AB - Link Layer Discovery Protocol (LLDP)	N/A	N/A	N/A
IEEE 802.1X - Port-Based Network Access Control (PNAC)	N/A	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	1 relay output with current carrying capacity of 1A @ 24 V DC
Reverse Polarity Protection	IP31, Aluminum Alloy case	IP31, Aluminum Alloy case	IP31, Aluminum Alloy case
Casing	EN55022 Class A, IEC 61000-3-2, IEC 61000-3-3, FCC Part 15 Class A; VCCI Class A	EN55022 Class A, IEC 61000-3-2, IEC 61000-3-3, FCC Part 15 Class A; VCCI Class A	
EMI	IEC 61000-4-2 (ESD) Lv.4, IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (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, IEC 61000-4-6 (CS), IEC 61000-4-8, IEC 61000-4-11	IEC 61000-4-2 (ESD) Lv.4, IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (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, IEC 61000-4-6 (CS), IEC 61000-4-8, IEC 61000-4-11	
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, APOE0812, APOE1612, APOE2412

		GV-POE0812	GV-APOE0812	GV-APOE1612	GV-APOE2412
Interface					
10/100M RJ-45 PoE Ports		N/A	N/A	N/A	N/A
10/100M RJ-45 Uplink Port		N/A	N/A	N/A	N/A
10/100/1000M RJ-45 PoE Ports		8	8	16	24
Dedicated 10/100/1000M RJ-45 Uplink Ports		N/A	N/A	N/A	N/A
Dedicated 1000 Base-SX/LX SFP Ports		N/A	2	2	2
10/100/1000M RJ-45 & 1000Base-SX/LX SFP Combo Ports		2	N/A	2	2
Total Ports		10	10	20	28
System Performance				Y	
Packet Buffer		4 Mbits	4.1 Mbits	4.1 Mbits	4.1 Mbits
MAC Address Table Size		8 K	8 K	8 K	8 K
Switching Capacity		20 Gbps	20 Gbps	40 Gbps	56 Gbps
Forwarding Rate		14.88 Mpps	14.88 Mpps	29.76 Mpps	41.66 Mpps
Transmission Method: Store and Forward		Y	Y	Y	Y
PoE Features				Y	
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	8	16	24
PoE Power Budget		119 W	140 W	250 W	370 W
Power Feeding Detecting Capability on PD		Y	Y	Y	Y
PD Alive Check		Y	Y	Y	Y
Power Management (per port)	Enable/Disable PoE Per Port	Y	Y	Y	Y
	Overloading Protection	Y	Y	Y	Y
	Priority Setting Per Port	Y	Y	Y	Y
	Power Level Setting Per Port	Y	Y	Y	Y
PoE Mode		Mode B	Mode A	Mode A	Mode A
L2 Features					
Auto-negotiation		Y	Y	Y	Y
Auto MDI/MDIX		Y	Y	Y	Y
Flow Control (duplex)	802.3x (Full)	Y	Y	Y	Y
	Back-Pressure (Half)	Y	Y	Y	Y
Spanning Tree	IEEE 802.1D (STP)	Y	Y	Y	Y
	IEEE 802.1w (RSTP)	Y	Y	Y	Y
	IEEE 802.1s (MSTP)	Y	Y	Y	Y
VLAN	VLAN Group	Y	Y	Y	Y
	Tagged Based	Y	Y	Y	Y
	Port-based	Y	Y	Y	Y
	Voice VLAN	Voice VLAN with OUI	Voice VLAN with OUI	Voice VLAN with OUI	Voice VLAN with OUI
Link Aggregation	IEEE 802.3ad with LACP	Y	Y	Y	Y
	Static Trunk	Y	Y	Y	Y
	Max. LACP Link Aggregation Group	8	8	8	8
	Max. Port per Link Aggregation Group	5	8	8	8
IGMP Snooping	IGMP Snooping v1 / v2 /v3	Supports 1024 IGMP groups	Supports 1024 IGMP groups	Supports 1024 IGMP groups	Supports 1024 IGMP groups
	IGMP Static Multicast Addresses	Supports 1024 static multicast addresses	Supports 1024 static multicast addresses	Supports 1024 static multicast addresses	Supports 1024 static multicast addresses
	IPv6 MLD Snooping	Supports 1024 MLD groups	Supports 1024 MLD groups	Supports 1024 MLD groups	Supports 1024 MLD groups
	MLD Static Multicast Addresses	Supports 1024 static multicast addresses	Supports 1024 static multicast addresses	Supports 1024 static multicast addresses	Supports 1024 static multicast addresses
	Querier, Immediate Leave	Y	Y	Y	Y
Storm Control (Broadcast/Multicast/ Unknown Unicast)		Y	Y	Y	Y
Jumbo Frame Support		9216 Bytes	9216 Bytes	9216 Bytes	9216 Bytes
IPv6 Support					
Dual IPv6/IPv4 Stack		Y	Y	Y	Y
IPv6 Web/SSL		Y	Y	Y	Y
IPv6 SNTP		IPv6 NTP	Y	Y	Y
IPv6 Telnet Server/SSH		Y	Y	Y	Y
IPv6 Ping Trace Route		Y	Y	Y	Y
IPv6 RADIUS		Y	Y	Y	Y
IPv6 Protocol-based VLANs		Y	Y	Y	Y

IPv6 SNMP		Y	Y	Y	Y
IPv6 ACL/IPMC		Y	Y	Y	Y
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)		Y	Y	Y	Y
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		15 User Privilege Levels Available	15 User Privilege Levels Available	15 User Privilege Levels Available	15 User Privilege Levels Available
Port Security (MAC-based)		Y	Y	Y	Y
IEEE 802.1x Port-based Access Control		Y	Y	Y	Y
ACL (L2/L3/L4)		Y	Y	Y	Y
IP Source Guard		Y	Y	Y	Y
RADIUS (Authentication, Authorization, Accounting)		Y	Y	Y	Y
TACACS+		Y	Y	Y	Y
HTTP & SSL (Secured Web)		Y	Y	Y	Y
SSH v2.0 (Secured Telnet Session)		Y	Y	Y	Y
MAC/IP Filter		Y	Y	Y	Y
Management					
Command Line Interface (CLI)		Y	Y	Y	Y
Web Based Management		Y	Y	Y	Y
Telnet		Y	Y	Y	Y
Access Management Filtering		Y	Y	Y	Y
Firmware Upgrade via HTTP		Y	Y	Y	Y
Dual Firmware Images		Y	Y	Y	Y
Configuration Download/Upload		Y	Y	Y	Y
SNMP (v1 / v2c / v3)		Y	Y	Y	Y
RMON (1, 2, 3 & 9 groups)		Y	Y	Y	Y
DHCP (Client/Relay/Option82/Snooping/Server)		Y	Y	Y	Y
System Event/Error Log		Y	Y	Y	Y
NTP/LLDP		Y	Y	Y	Y
Cable Diagnostics		Y	Y	Y	Y
IPv6 Configuration		Y	Y	Y	Y
Port Mirroring		Y	Y	Y	Y
Mechanical					
Power Input		100~240V AC	100~240V AC	100~240V AC	100~240V AC
Dimensions (H x W x D)		44 × 330 × 210 mm (1.7 x 13.8 x 8.3 in)	44 x 280 x 180 mm (1.73 x 11.02 x 7.08 in)	44 x 440 x 207 mm (1.73 x 17.32 x 8.14 in)	44 x 440 x 207 mm (1.73 x 17.32 x 8.14 in)
DIP Switch		N/A	N/A	N/A	N/A
LED		Power, PoE, Link/Act, SFP	Power, PoE, Link/Act, Sys	Power, PoE, Link/Act, Sys	Power, PoE, Link/Act, Sys
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		5 ~ 90% (non-condensing)	10 ~ 90%(non-condensing)	10 ~ 90%(non-condensing)	10 ~ 90%(non-condensing)
Weight		2.5 kg (5.51 lb)	1.68 kg (3.7 lb)	2.56 kg (5.64 lb)	3.32 kg (7.32 lb)
Certification		CE, FCC Class A, RoHS compliant, IEC 61000-4-5 Lv.5	CE, FCC Class A, RoHS compliant, IEC 61000-4-5 Lv.5	CE, FCC Class A, RoHS compliant, IEC 61000-4-5 Lv.5	CE, FCC Class A, RoHS compliant, IEC 61000-4-5 Lv.5
Standard					
IEEE 802.3i - 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)		Y	Y	Y	Y
IEEE 802.3x - Full-Duplex Ethernet 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 (CoS)		Y	Y	Y	Y
IEEE 802.1D - Spanning Tree Protocol (STP)		Y	Y	Y	Y
IEEE 802.1w - Rapid Spanning Tree Protocol (RSTP)		Y	Y	Y	Y
IEEE 802.1s - Multiple Spanning Tree Protocol (MSTP)		Y	Y	Y	Y

IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	Y	Y	Y	Y
IEEE 802.1AB - Link Layer Discovery Protocol (LLDP)	Y	Y	Y	Y
IEEE 802.1X - Port-Based Network Access Control (PNAC)	Y	Y	Y	Y
Industry Standard				
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-APOE0812-E (L2+ Industrial Switch)

		GV-APOE0812-E
Interface		
10/100M RJ-45 PoE Ports		N/A
10/100M RJ-45 Uplink Port		N/A
10/100/1000M RJ-45 PoE Ports		8
Dedicated 10/100/1000M RJ-45 Uplink Ports		2
Dedicated 1000 Base-SX/LX SFP Ports		2
10/100/1000M RJ-45 & 1000Base-SX/LX SFP Combo Ports		N/A
Total Ports		12
System Performance		
Packet Buffer		4.1 Mbits
MAC Address Table Size		8 K
Switching Capacity		24 Gbps
Forwarding Rate		17.86 Mpps
Transmission Method: Store and Forward		Y
PoE Features		
IEEE 802.3af/at		IEEE 802.3af/at
Number of PSE Ports		8
PoE Power Budget		240 W
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 A
L2 Features		
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	8
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		9216 Bytes
IPv6 Support		
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
QoS Features		

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
Security		
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
Management		
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
Mechanical		
Power Input		9~57V AC, 50 ~ 60 Hz
Dimensions (H x W x D)		50 x 171 x 120 mm (1.97” x 6.73” x 4.72”)
DIP Switch		PoE HW RESET / PoE AUTO RESET
LED		P1, P2, STA, Alarm, LNK/ACT, PoE
Operating Temperature		-40 ~ 75°C (-40 ~ 167 °F)
Operating Humidity		5 ~ 90% (non-condensing)
Weight		1.024 kg (2.26 lb)
Certification		CE, FCC Class A, UKCA, IEC 61000-4-5 (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 802.3i - 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 - Full-Duplex Ethernet Flow Control		Y
IEEE 802.1Q - VLAN		Y
IEEE 802.1v - Protocol VLAN		Y
IEEE 802.1p - Class of Service (CoS)		Y
IEEE 802.1D - Spanning Tree Protocol (STP)		Y
IEEE 802.1w - Rapid Spanning Tree Protocol (RSTP)		Y

IEEE 802.1s - Multiple Spanning Tree Protocol (MSTP)	Y
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	Y
IEEE 802.1AB - Link Layer Discovery Protocol (LLDP)	Y
IEEE 802.1X - Port-Based Network Access Control (PNAC)	Y
Industry Standard	
Alarm Contact	1 relay output with current carrying capacity of 1A @ 24 V DC
Reverse Polarity Protection	IP31, Aluminum Alloy case
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.

Gigabit Web Smart L3 Switch

GV-APOE4813

		GV-APOE4813
Interface		
10/100M RJ-45 PoE Ports		N/A
10/100/1000M RJ-45 PoE Ports		48
Dedicated 10/100/1000M RJ-45 Uplink Ports		N/A
Dedicated 1000 Base-SX/LX SFP Ports		N/A
Dedicated 10G Base-X SFP+ Ports		6
10/100/1000M RJ-45 & 1000Base-SX/LX SFP Combo Ports		N/A
Total Ports		54
System Performance		
Packet Buffer		16 M bits
MAC Address Table Size		32 K
Switching Capacity		216 Gbps
Forwarding Rate		160.71 Mpps
Transmission Method: Store and Forward		Y
PoE Features		
IEEE 802.3af/at		IEEE 802.3af/at
Number of PSE Ports		48
PoE Power Budget		500 W (1706 BTU) & 600 W (2047 BTU)
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	N/A
	Power Level Setting Per Port	N/A
PoE Mode		Mode A
L3 Features		
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)	N/A
VLAN	VLAN Group	Y
	Tagged Based	Y
	Port-based	Y
	Voice VLAN	N/A
Link Aggregation	IEEE 802.3ad with LACP	Y
	Static Trunk	Y
	Max. LACP Link Aggregation Group	4
	Max. Port per Link Aggregation Group	8
IGMP Snooping	IGMP Snooping v1 / v2 /v3	IGMP v1/v2
	IGMP Static Multicast Addresses	Y
	IPv6 MLD Snooping	N/A
	MLD Static Multicast Addresses	N/A
	Querier, Immediate Leave	N/A
Storm Control (Broadcast/Multicast/ Unknown Unicast)		Y
Jumbo Frame Support		9.6K
QoS Features		
Number of priority queue		8
Rate Limiting	Ingress	Y
	Egress	Y
DiffServ (RFC2474 Remarking)		N/A
Scheduling (WRR, Strict, Hybrid)		Y
CoS	IEEE 802.1p	Y
	IP ToS precedence, IP DSCP	Y
Security		
Management System User Name/Password Protection		Y
User Privilege		N/A
Port Security (MAC-based)		N/A
IEEE 802.1x Port-based Access Control		N/A
ACL (L2/L3/L4)		N/A
IP Source Guard		N/A
RADIUS (Authentication, Authorization, Accounting)		N/A
TACACS+		N/A
HTTP & SSL (Secured Web)		Y
SSH v2.0 (Secured Telnet Session)		N/A
MAC/IP Filter		N/A

Management	
Command Line Interface (CLI)	N/A
Web Based Management	Y
Telnet	N/A
Access Management Filtering	N/A
Firmware Upgrade via HTTP	Y
Dual Firmware Images	N/A
Configuration Download/Upload	Y
SNMP (v1 / v2c / v3)	Y
RMON (1, 2, 3 & 9 groups)	Y
DHCP (Client/Relay/Option82/Snooping/Server)	DHCP Client / Snooping / Option82
System Event/Error Log	N/A
NTP/LLDP	N/A
Cable Diagnostics	Y
IPv6 Configuration	Y
Port Mirroring	Y
Mechanical	
Power Input	100~240V AC
Dimensions	44 x 330 x 440 mm (1.73” x 12.9” x 17.32”)
DIP Switch	N/A
LED	Power, PoE, Link/Act, System
Operating Temperature	0 °C ~ 40 °C (32 ~ 88 °F)
Operating Humidity	10 to 90% (non-condensing)
Weight	5.6 kg (12.3 lb)
Certifications	FCC Class A, CE, UKCA, RoHS, IEC 61000-4-5 Lv.5
Standard	
IEEE 802.3i - 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)	N/A
IEEE 802.3x - Full-Duplex Ethernet Flow Control	Y
IEEE 802.1Q - VLAN	N/A
IEEE 802.1v - Protocol VLAN	Y
IEEE 802.1p - Class of Service (CoS)	Y
IEEE 802.1D - Spanning Tree Protocol (STP)	Y
IEEE 802.1w - Rapid Spanning Tree Protocol (RSTP)	Y
IEEE 802.1s - Multiple Spanning Tree Protocol (MSTP)	N/A
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	Y
IEEE 802.1AB - Link Layer Discovery Protocol (LLDP)	Y
IEEE 802.1X - Port-Based Network Access Control (PNAC)	Y
Industry Standard	
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