












# GV-PoE Switch Comparison Table

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## 10/100M Web Smart L2 Switch / Gigabit Web Smart L2 Switch

Model Name	10/100M Web Smart L2 Switch					Gigabit Web Smart L2 Switch					
	GV-POE0801	GV-POE1601	GV-POE1601-V2	GV-POE2401	GV-POE2401-V2	GV-POE0811-V2	GV-POE0811	GV-POE1611	GV-POE1611-V2	GV-POE2411	GV-POE2411-V2
<b>Interface</b>											
10/100M RJ45 PoE Ports	8	16		24				N/A			
10/100/1000M RJ45 PoE Ports	N/A	N/A		N/A		8		16			24
Dedicated 10/100/1000M RJ45 Uplink Ports	1	N/A		N/A		1		N/A			
Dedicated 1000 Base-SX/LX SFP Ports	1	N/A		N/A		1	2			N/A	
10/100/1000M RJ45 & 1000Base-SX/LX SFP Combo Ports	N/A	2		2		N/A			4 (Port 1-4)		
Total Ports	10	18		26		10		16			24
<b>System Performance</b>											
Packet Buffer	2.75 Mbits					4 Mbits	144 KB	500 KB			
MAC Address Table Size	4 K					8 K					
Switching Capacity	5.6 Gbps	7.2 Gbps		8.8 Gbps		20 Gbps	16 Gbps	32 Gbps			48 Gbps
Forwarding Rate	4.1664 Mpps	5.3568 Mpps		6.5472 Mpps		14.88 Mpps		23.808 Mpps			35.712 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	8	16		24		8		16			24
Max. Total Power Consumption	130 W	250 W		500 W		130 W		250 W			500 W
External/Internal Power	Internal Power					Internal Power					
Power Feeding Detecting Capability on PD	Y					Y					
PD Alive Check	N/A					N/A					
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					
<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			Y		
	IEEE 802.1s (MSTP)					N/A			N/A		
VLAN	VLAN Group					Y					
	Tagged Based					Y					
	Port-based					Y					
	Voice VLAN					N/A					
Link Aggregation	IEEE 802.3ad with LACP					N/A				Y	
	Static Trunk					Y					
	Max. LACP Link Aggregation Group	1, Port 9-10	1, Port 17-18	3, Port 1-4, Port 5-8, Port		4				8	
Max. Port per Link Aggregation Group	2					4					
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					N/A			Y		
Jumbo Frame Support	N/A					9.6K					
<b>QoS Features</b>											
Number of priority queue	2					8					
Rate Limiting	Ingress					N/A				Y	
	Egress					N/A				Y	
DiffServ (RFC2474 Remarking)	N/A					N/A					
Scheduling (WRR, Strict, Hybrid)	N/A					N/A					
CoS	IEEE 802.1p					Y					
	IP ToS precedence, IP DSCP					Y					
<b>Security</b>											
Management System User Name/Password Protection	Y					Y					
User Privilege	N/A					N/A					
Port Security (MAC-based)	Port MAC Binding					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					Y
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					Y
<b>Management</b>											
Command Line Interface (CLI)	N/A					N/A					
Web Based Management	Y					Y					
Telnet	N/A					N/A					
Access Management Filtering	N/A					N/A					
Firmware Upgrade via HTTP	Y					Y					
Dual Firmware Images	N/A					N/A					
Configuration Download/Upload	Y					Y					
SNMP (v1 / v2c / v3)	N/A					N/A					Y
RMON (1, 2, 3 & 9 groups)	N/A					N/A					
DHCP (Client/Relay/Option82/Snooping/Server)	DHCP Client Only					DHCP Client Only					
System Event/Error Log	N/A					N/A					
NTP/LLDP	N/A					LLDP			N/A		
Cable Diagnostics	N/A					N/A		Y		N/A	Y
IPv6 Configuration	N/A					N/A					
Port Mirroring	Y					Y					
<b>Mechanical</b>											
Power Input	100-240V AC										
Dimensions	44 × 266 × 160 mm (1.7 × 10.5 × 6.3 in)	44 × 440 × 330 mm (1.7 × 17.3 × 13.0 in)	44 × 440 × 220 mm (1.7 × 17.3 × 8.7 in)	44 × 440 × 331 mm (1.7 × 17.3 × 13.0 in)		44 × 266 × 161 mm (1.7 × 10.5 × 6.3 in)	44 × 440 × 220 mm (1.7 × 10.5 × 8.7 in)			44 × 440 × 331 mm (1.7 × 10.5 × 13.0 in)	
DIP Switch	N/A					N/A					
LED	Power, PoE, Link/Act	Power, PoE, Link/Act, 1000M				Power, PoE, Link/Act	Power, PoE, Link/Act, 1000M	Power, PoE, Link/Act, SFP			
Operating Temperature	0 - 45 °C (32 - 99 °F)	0 °C - 40 °C (32 - 88 °F)				0 °C - 50 °C (32 - 110 °F)	0 °C - 40 °C (32 - 88 °F)				
Operating Humidity	10 to 90% (non-condensing)										
Weight	1.8 kg (3.96 lb)	4.7 kg (10.4 lb)				1.8 kg (3.96 lb)	3 kg (6.61 lb)	4.6 kg (10.14 lb)	4 kg (8.81 lb)	4.7 kg (10.36 lb)	4.6 kg (10.14 lb)
Certification	FCC Class A, CE					CE, Commercial FCC Part 15 Class B		FCC Class A, CE			
<b>Standard</b>											
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					

Model Name	10/100M Web Smart L2 Switch					Gigabit Web Smart L2 Switch					
	GV-POE0801	GV-POE1601	GV-POE1601-V2	GV-POE2401	GV-POE2401-V2	GV-POE0811-V2	GV-POE0811	GV-POE1611	GV-POE1611-V2	GV-POE2411	GV-POE2411-V2
											
IEEE 802.3at Power over Ethernet (PoE+)			Y					Y			
IEEE 802.3az - Energy Efficient Ethernet (EEE)			N/A			Y				N/A	
IEEE 802.3x - Flow Control			Y					Y			
IEEE 802.1Q - VLAN			Y					Y			
IEEE 802.1v - Protocol VLAN			Y					Y			
IEEE 802.1p - Class of Service			Y					Y			
IEEE 802.1D - Spanning Tree			Y					Y			
IEEE 802.1w - Rapid Spanning Tree			Y			N/A				Y	
IEEE 802.1s - Multiple Spanning Tree			Y			N/A				Y	
IEEE 802.1s - Multiple Spanning Tree			N/A			Y				N/A	
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)			Y			N/A				Y	
IEEE 802.1AB - LLDP (Link Layer Discovery Protocol)			N/A			Y				N/A	
IEEE 802.1X - Access Control			N/A				N/A				Y
<b>Industry Standard</b>											
Alarm Contact			N/A							N/A	
Reverse Polarity Protection			N/A							N/A	
Casing			N/A							N/A	
EMI			N/A							N/A	
EMS			N/A							N/A	
Shock Compliance			N/A							N/A	
Free Fall Compliance			N/A							N/A	
Vibration Compliance			N/A							N/A	
RoHS			N/A							N/A	

# Gigabit Full Management L2+ Switch / Un-Management Switch / Industrial Switch

Model Name	Gigabit Full Management L2+ Switch		Un-Management Switch		Industrial Switch
	GV-POE0812	GV-POE0400 / 0400-V2	GV-POE0800	GV-POE0810	
					
<b>Interface</b>					
10/100M RJ45 PoE Ports	N/A	4	8	N/A	N/A
10/100M RJ45 Uplink Port	N/A	1		N/A	N/A
10/100/1000M RJ45 PoE Ports	8	N/A	N/A	8	4
Dedicated 10/100/1000M RJ45 Uplink Ports	N/A	N/A	N/A	N/A	N/A
Dedicated 1000 Base-SX/LX SFP Ports	N/A	N/A	N/A	N/A	1
10/100/1000M RJ45 & 1000Base-SX/LX SFP Combo Ports	2	N/A	N/A	N/A	N/A
Total Ports	10	5	8	8	5
<b>System Performance</b>					
Packet Buffer	4 Mbits	1 K	1.625 Mbits	1.37 Mbits	1 Mbits
MAC Address Table Size	8 K	764 Kb	4 K	8 K	2 K
Switching Capacity	20 Gbps	1 Gbps	1.6 Gbps	16 Gbps	10 Gbps
Forwarding Rate	14.88 Mpps	0.744 Mpps	1.19 Mpps	11.9 Mpps	7.44 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	4	8	8	4
Max. Total Power Consumption	130 W	65 W	130 W	130 W	5 W
External/Internal Power	Internal Power	External Power	Internal Power	Internal Power	External Power
Power Feeding Detecting Capability on PD	Y				Y
PD Alive Check	Y		N/A		N/A
Power Management (per port)	Enable/Disable PoE Per Port	Y	N/A		N/A
	Overloading Protection	Y	Y		Y
	Priority Setting Per Port	Y		N/A	N/A
	Power Level Setting Per Port	Y		N/A	N/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)	Y	N/A		N/A
	IEEE 802.1w (RSTP)	Y	N/A		N/A
	IEEE 802.1s (MSTP)	Y	N/A		N/A
VLAN	VLAN Group	Y	N/A		N/A
	Tagged Based	Y	N/A		N/A
	Port-based	Y	N/A		N/A
	Voice VLAN	Voice VLAN with OUI	N/A		N/A
Link Aggregation	IEEE 802.3ad with LACP	Y	N/A		N/A
	Static Trunk	Y	N/A		N/A
	Max. LACP Link Aggregation Group	8	N/A		N/A
	Max. Port per Link Aggregation Group	5	N/A		N/A
IGMP Snooping	IGMP Snooping v1 / v2 / v3	Supports 1024 IGMP groups	N/A		N/A
	IGMP Static Multicast Addresses	Supports 1024 static multicast addresses	N/A		N/A
	IPv6 MLD Snooping	Supports 1024 MLD groups	N/A		N/A
	MLD Static Multicast Addresses	Supports 1024 static multicast addresses	N/A		N/A
Storm Control (Broadcast / Multicast / Unknown Unicast)	Querier, Immediate Leave	Y	N/A		N/A
		Y	N/A		N/A
Jumbo Frame Support	9.6 K		N/A		N/A
<b>IPv6 Support</b>					
Dual IPv6/IPv4 Stack	Y		N/A		N/A
IPv6 Web/SSL	Y		N/A		N/A
IPv6 SNMP	IPv6 NTP		N/A		N/A
IPv6 Telnet Server/SSH	Y		N/A		N/A
IPv6 Ping Trace Route	Y		N/A		N/A
IPv6 RADIUS	Y		N/A		N/A
IPv6 Protocol-based VLANs	Y		N/A		N/A
IPv6 SNMP	Y		N/A		N/A
IPv6 ACL/IPMC	Y		N/A		N/A
<b>QoS Features</b>					
Number of priority queue	8		N/A		N/A
Rate Limiting	Ingress	Y	N/A		N/A
	Egress	Y	N/A		N/A
DiffServ (RFC2474 Remarking)	Y		N/A		N/A
Scheduling (WRR, Strict, Hybrid)	Y		N/A		N/A
CoS	IEEE 802.1p	Y	N/A		N/A
	IP ToS precedence, IP DSCP	Y	N/A		N/A
<b>Security</b>					
Management System User Name/Password Protection	Y		N/A		N/A
User Privilege	15 User Privilege Levels Available		N/A		N/A
Port Security (MAC-based)	Y		N/A		N/A
IEEE 802.1x Port-based Access Control	Y		N/A		N/A
ACL (L2/L3/L4)	Y		N/A		N/A
IP Source Guard	Y		N/A		N/A
RADIUS (Authentication, Authorization, Accounting)	Y		N/A		N/A
TACACS+	Y		N/A		N/A
HTTP & SSL (Secured Web)	Y		N/A		N/A
SSH v2.0 (Secured Telnet Session)	Y		N/A		N/A
MAC/IP Filter	Y		N/A		N/A
<b>Management</b>					
Command Line Interface (CLI)	Y		N/A		N/A
Web Based Management	Y		N/A		N/A
Telnet	Y		N/A		N/A
Access Management Filtering	Y		N/A		N/A
Firmware Upgrade via HTTP	Y		N/A		N/A
Dual Firmware Images	Y		N/A		N/A
Configuration Download/Upload	Y		N/A		N/A
SNMP (v1 / v2c / v3)	Y		N/A		N/A
RMON (1, 2, 3 & 9 groups)	Y		N/A		N/A
DHCP (Client/Relay/Option82/Snooping/Server)	Y		N/A		N/A
System Event/Error Log	Y		N/A		N/A
NTP/LLDP	Y		N/A		N/A
Cable Diagnostics	Y		N/A		N/A
IPv6 Configuration	Y		N/A		N/A
Port Mirroring	Y		N/A		N/A

Model Name	Gigabit Full Management L2+ Switch	Un-Management Switch		Industrial Switch
	GV-POE0812	GV-POE0400 / 0400-V2	GV-POE0800	GV-POE0810
				
<b>Mechanical</b>				
Power Input	100-240V AC	100-240V AC, 56 V/65 W Power Adapter		1 Removable 6-pin Terminal Block
Dimensions	44 x 330 x 210 mm (1.7 x 13.8 x 8.3 in)	24 x 130 x 98 mm (0.9 x 5.1 x 3.9 in)	44 x 266 x 160 mm (1.7 x 10.5 x 6.3 in)	
DIP Switch	N/A	N/A		Switch 1-5: Port 1-5 disconnect alarm Switch 6: Power input alarm
LED	Power, PoE, Link/Act, SFP	Power, PoE, Link/Act		PWT, PW2, ALARM, PoE, Link/Act, SFP
Operating Temperature	0 - 40 °C (32 - 104 °F)	0-40 °C (32 - 104 °F)		-40 - 75°C (-40 - 167 °F)
Operating Humidity	5-90% (non-condensing)	10 to 90% (non-condensing)		5-90% (non-condensing)
Weight	2.5 kg (5.51 lb)	0.3 kg (0.66 lb)	1.6 kg (3.53 lb)	0.7 kg (1.54 lb)
Certification	CE, FCC Class A	FCC Class A, CE		CE, FCC Class A
<b>Standard</b>				
IEEE 802.3 - 10BaseT	Y	Y		Y
IEEE 802.3u - 100BaseTX	Y	Y		Y
IEEE 802.3ab - 1000BaseT	Y	N/A		Y
IEEE 802.3z 1000BaseSX/LX	Y	N/A		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	N/A		Y
IEEE 802.3x - Flow Control	Y	Y		Y
IEEE 802.1Q - VLAN	Y	N/A		N/A
IEEE 802.1v - Protocol VLAN	Y	N/A		N/A
IEEE 802.1p - Class of Service	Y	N/A		N/A
IEEE 802.1D - Spanning Tree	Y	N/A		N/A
IEEE 802.1w - Rapid Spanning Tree	Y	N/A		N/A
IEEE 802.1s - Multiple Spanning Tree	Y	N/A		N/A
IEEE 802.3ad - Link Aggregation Control Protocol (LACP)	Y	N/A		N/A
IEEE 802.1AB - LLDP (Link Layer Discovery Protocol)	Y	N/A		N/A
IEEE 802.1X - Access Control	Y	N/A		N/A
<b>Industry Standard</b>				
Alarm Contact	N/A	N/A		1 relay output with current carrying capacity of 1A @ 24 V DC
Reverse Polarity Protection	N/A	N/A		IP31, Aluminum Alloy case
Casing	N/A	N/A		EN55022 Class A, IEC61000-3-2, IEC 61000-3-3, FCC Part 15 Class A: VCCI Class A
EMI	N/A	N/A		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	N/A	N/A		IEC60068-2-27
Shock Compliance	N/A	N/A		IEC60068-2-32
Free Fall Compliance	N/A	N/A		IEC60068-2-6
Vibration Compliance	N/A	N/A		IEEE 2002/95/EC
RoHS	N/A	N/A		N/A