









## Comparison Chart for GV-AS Controllers

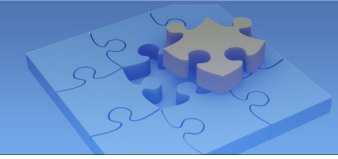
### GV-AS100 / GV-AS110 / GV-AS120 / GV-AS1010 / GV-AS1110 / GV-CS1320

Models		GV-AS100	GV-AS110	GV-AS120	GV-AS1010	GV-AS1110	GV-CS1320
							
<b>Hardware</b>							
<b>CPU</b>		8-bit RISC microprocessor	32-bit RISC microprocessor		32-bit ARM7TDMI		32-bit RISC microprocessor
<b>Communication</b>		RS-485 TCP/IP (with GV-ASBox / ASNet)			TCP/IP		TCP/IP
<b>Built-in Reader</b>		O (Reads UID only)			O (Reads GID or UID)		O (Reads GID or UID)
<b>Keypad</b>		O	O	X	O	O	X
<b>Micro SD Card</b>		X	X	X	X	X	O
<b>Battery Types</b>		Replaceable Button Cell	Built-in Battery				Built-in Battery
<b>Support for Backup Battery</b>		O (with GV-ASBox / ASNet)			N/A		N/A
<b>Function</b>							
<b>Doors Supported</b>	<b>One-way</b>	1 2 (with GV-ASBox)			1		1
	<b>Two-way</b>	1 2 (with GV-ASBox)			1		1
<b>Readers Supported</b>	<b>Wiegand</b>	1 2 (with GV-ASBox)			N/A		N/A
	<b>RS-485</b>	1 3 (with GV-ASNet) 5 (with GV-ASBox)	2 (with GV-ASNet) 4 (with GV-ASBox)		2	N/A	2
	<b>TCP/IP</b>	2 (with GV-ASNet) 4 (with GV-ASBox)			2		2
<b>I/O Supported</b>	<b>Standard</b>	3 in / 2 out		2 in / 1 out	3 in / 2 out	2 in / 1 out	2 in / 1 out
	<b>Optional</b>	11 in / 10 out (with GV-ASBox)		10 in / 9 out (with GV-ASBox)	N/A		N/A








Models	GV-AS100	GV-AS110	GV-AS120	GV-AS1010	GV-AS1110	GV-CS1320
<b>Bell Button Support</b>	N/A					O
<b>Number of User Cards</b>	1000 / 40,000 Cards (Standalone / networked or RS-485 mode)			1000 / 40,000 cards (standalone / networked mode)		40,000 cards
<b>Event Buffer</b>	65,536					50,000
<b>Receiving Data through TCP/IP</b>	O (with GV-ASBox / Net)			O		O
<b>Weigand Card Format</b>	26 ~ 64 bits			26 bits		26 bits
<b>Camera</b>						
<b>Camera Resolution</b>	N/A					2 MP
<b>IR LED Quantity</b>	N/A					2 IR LEDs
<b>Audio Support</b>	N/A					Two-way Audio
<b>General</b>						
<b>Operating Temperature</b>	0 ~ 65°C / 32 ~ 149°F	-35 ~ 65°C / -31 ~ 149°F		0 ~ 65°C / 32 ~ 149°F	-35 ~ 65°C / -31 ~ 149°F	-20 ~ 50 °C / -4 ~ 122 °F
<b>Operating Humidity</b>	10% ~ 90% RH (non-condensing)					
<b>Power</b>	12V DC, 1A	12V DC, 1.25A				12V DC, 2.5A PoE (IEEE 802.3at)
<b>Power Supply Output (For GV-AS Kit only)</b>	N/A					N/A
<b>Power Adapter Board Output (For GV-AS Kit only)</b>	N/A					N/A
<b>Dimension (L x W x H)</b>	96 x 137 x 27 mm / 3.78 x 5.39 x 1.06 in	95 x 108 x 23 mm / 3.74 x 4.25 x 0.91 in	65.8 x 115.6 x 20.5 mm / 2.6 x 4.6 x 0.8 in	96 x 137 x 27 mm / 3.78 x 5.39 x 1.06 in	95 x 108 x 23 mm / 3.74 x 4.25 x 0.91 in	137 x 80 x 34.5 mm / 5.4 x 3.15 x 1.36 in
<b>Weight</b>	250 g / 0.55 lb	200 g / 0.44 lb	138 g / 0.3 lb	250 g / 0.55 lb	270 g / 0.59 lb	315 g / 0.69 lb
<b>Ingress Protection</b>	IP54		IP66	IP54	IP66	
<b>Certification</b>	CE, FCC, RoHS					CE, FCC, RCM, RoHS

All specifications are subject to change without notice.



## GV-AS210 / 2110 / 2120, GV-AS410 / 4110 / 810 / 8110, GV-AS410 / 4110 / 4111 / 810 / 8110 / 8111 Kit, and GV-AS1520

Models		GV-AS210 / 2110 / 2120	GV-AS410 / 4110 / 810 / 8110	GV-AS410 / 4110 / 810 / 8110 Kit	GV-AS4111 / 8111 Kit	GV-AS1520
						
<b>Hardware</b>						
<b>CPU</b>		32-bit ARM7TDMI				32-bit ARM-based RISC
<b>Communication</b>		TCP/IP				
<b>Built-in Reader</b>		X	X	X	X	O
<b>Keypad</b>		X	X	X	X	X
<b>Micro SD Card</b>		O	O	O	O	X
<b>Battery Types</b>		<b>AS210:</b> Built-in Battery (Irreplaceable) <b>AS2110 / 2120:</b> Replaceable Button Cell	<b>AS410 / 810:</b> Built-in Battery (Irreplaceable) <b>AS4110 / 8110:</b> Replaceable Button Cell		Replaceable button cell (CR2032)	Built-in Battery
<b>Support for Backup Battery</b>		O				N/A
<b>Doors Supported</b>	<b>One-way</b>	4	<b>AS410 / 4110:</b> 4 <b>AS810 / 8110:</b> 8		<b>AS4111:</b> 4 <b>AS8111:</b> 8	1
	<b>Two-way</b>	2 (Wiegand only) 4 (RS-485 / Network) 4 (Wiegand + RS-485 / Network)	<b>AS410 / 4110:</b> 4 <b>AS810 / 8110:</b> 4 (Wiegand only), 8 (RS-485 / Network), 8 (Wiegand + RS-485 / Network)		<b>AS4111:</b> 4 <b>AS8111:</b> 4 (Wiegand only) 8 (RS-485 / Network) 8 (Wiegand + RS-485 / Network)	1
<b>Readers Supported</b>	<b>Wiegand</b>	4	8		8	N/A
	<b>RS-485</b>	8	<b>AS410 / 4110:</b> 8 <b>AS810 / 8110:</b> 16		<b>AS4111:</b> 8 <b>AS8111:</b> 16	2
	<b>TCP/IP</b>	8	<b>AS410 / 4110:</b> 8 <b>AS810 / 8110:</b> 16		<b>AS4111:</b> 8 <b>AS8111:</b> 16	2



Models		GV-AS210 / 2110 / 2120	GV-AS410 / 4110 / 810 / 8110	GV-AS410 / 4110 / 810 / 8110 Kit	GV-AS4111 / 8111 Kit	GV-AS1520
I/O Supported	Standard	8 in / 8 out	16 in / 24 out		16 in / 24 out	1 in / 4 out
	Optional	N/A	N/A		N/A	N/A
Number of User Cards		100,000 cards	100,000 cards			100,000 cards
Event Buffer		1,000,000				
Receiving Data through TCP/IP		○				
Weigand Card Format		26 ~ 64 bits				64 bits
<b>General</b>						
Operating Temperature		0 ~ 65°C / 32 ~ 149°F				-20 ~ 55 °C / -4 ~ 131°F
Operating Humidity		10% ~ 90% RH (non-condensing)				
Power		<b>AS210 / 2110:</b> 12V DC, 3A <b>AS2120:</b> 12V DC, 3A / PoE+ (IEEE 802.3at, 25.5W)	<b>AS410 / 4110:</b> 12V DC, 3.5A <b>AS810 / 8110:</b> 12V DC, 5A	<b>US Standard:</b> AC 110 ~120V, 50 ~ 60Hz <b>EU Standard:</b> AC 200 ~240V, 50 ~ 60Hz	<b>US Standard (UL 294):</b> AC 110 ~120V, 50 ~ 60Hz, 1.7A <b>EU Standard:</b> AC 200 ~240V, 50 ~ 60Hz	12V DC, 1.25A / PoE+ (IEEE 802.3at, provides up to 25.5 W)
Power Supply Output (For GV-AS Kit only)		N/A		<b>DC Voltage Range:</b> 12V <b>Rated Current:</b> 12.5A <b>Current Range:</b> 0~10A <b>Rated Power:</b> 150 W	<b>DC Voltage Range:</b> 11V ~ 13V (Nominal 12V) <b>Rated Current:</b> 13A <b>Rated Power:</b> 150 W	N/A
Power Adapter Board Output (For GV-AS Kit only)		N/A		<b>DC Voltage Range:</b> 12V <b>Rated Current:</b> 0.9A <b>Rated Power:</b> 10.8 W	<b>DC Voltage Range:</b> 12V <b>Rated Current:</b> 0.5A <b>Rated Power:</b> 6 W	N/A
Dimension (L x W x H)		210 x 204 x 46.6 mm / 8.27 x 8.03 x 1.83 in (case included)	210 x 187 x 40 mm / 8.27 x 7.36 x 1.57 in	420 x 300 x 110 mm / 16.5 x 11.8 x 4.33 in		228 x 228 x 52.3 mm / 8.97 x 8.97 x 2.04 in
Weight		810 g / 1.79 lb (case included)	900 g / 2 lb	4.4 kg / 9.68 lb		590 g / 1.30 lb
Ingress Protection		N/A				IP56
Certification		CE, FCC, RoHS			UL 294, CE, FCC, RoHS	CE, FCC, RoHS

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