



## Comparison Chart for GV-AS Controllers

Models		GV-AS100	GV-AS110	GV-AS120	GV-AS1010	GV-AS1110	GV-AS210 / 2110	GV-AS400	GV-AS410 / 4110 / 810 / 8110
									
<b>Hardware</b>									
<b>CPU</b>		8-bit RISC microprocessor	32-bit RISC microprocessor		32-bit ARM7TDMI			8-bit RISC microprocessor	32-bit ARM7TDMI
<b>Communication</b>		RS-485 TCP/IP (with GV-ASBox / ASNet)			TCP/IP				
<b>Built-in Reader</b>		O (Reads UID only) <sup>(Note 1)</sup>			O (Reads GID or UID) <sup>(Note 1)</sup>		X		
<b>Keypad</b>		O	O	X	O	O	X	O (with GV-AS Keypad)	X
<b>Function Keys on Keypad</b>		X	X	X	O	X	X	X	X
<b>Micro SD Card</b>		X	X	X	X	X	O	X	O
<b>Battery Types</b>		Replaceable Button Cell	Built-in Battery				AS210: Built-in Battery AS2110: Replaceable Button Cell	Replaceable Button Cell	AS410 / 810: Built-in Battery AS4110 / 81110: Replaceable Button Cell
<b>Support for Backup Battery</b>		O (with GV-ASBox / ASNet)			N/A		O	O (with Power Board)	O
<b>Function</b>									
<b>Doors Supported</b>	<b>One-way</b>	1 2 (with GV-ASBox)			1		4	4	<b>AS410 / 4110: 4</b> <b>AS810 / 8110: 8</b>
	<b>Two-way</b>	1 2 (with GV-ASBox)			1		2 (Wiegand only) 4 (Wiegand + RS-485 / Network)	4	<b>AS410 / 4110: 4</b> <b>AS810 / 8110: 4 (Wiegand only)</b> 8 (Wiegand + RS-485 / Network)
<b>Readers Supported</b>	<b>Wiegand</b>	1 2 (with GV-ASBox)			N/A		4	8	8
	<b>RS-485</b>	1 3 (with GV-ASNet) 5 (with GV-ASBox)	2 (with GV-ASNet) 4 (with GV-ASBox)		2 <sup>(Note 2)</sup>	N/A	8		
	<b>TCP/IP</b>	2 (with GV-ASNet) 4 (with GV-ASBox)			2 <sup>(Note 2, 3)</sup>		8		
<b>I/O Supported</b>	<b>Standard</b>	3 in / 2 out		2 in / 1 out	3 in / 2 out	2 in / 1 out	8 in / 8 out	16 in / 16 out	16 in / 24 out
	<b>Optional</b>	11 in / 10 out (with GV-ASBox)		10 in / 9 out (with GV-ASBox)	N/A		N/A	80 in / 80 out (with 4 GV-IO Box)	N/A



Models	GV-AS100	GV-AS110	GV-AS120	GV-AS1010	GV-AS1110	GV-AS210 / 2110	GV-AS400	GV-AS410 / 4110 / 810 / 8110
<b>Number of User Cards</b>	1000 / 40,000 Cards (Standalone / networked or RS-485 mode)			1,000 / 40,000 cards (standalone / networked mode)		40,000 cards		
<b>Event Buffer</b>	65,536					1,000,000	65,536	1,000,000
<b>Receiving Data through TCP/IP</b>	O (with GV-ASBox / Net)			O				
<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	0 ~ 65°C / 32 ~ 149°F		
<b>Operating Humidity</b>	10% ~ 90% RH (non-condensing)							
<b>Power</b>	AC 100 ~ 240V, 50 ~ 60Hz					AC 100 ~250V, 50 ~ 60Hz		
<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	210 x 204 x 46.6 mm / 8.27 x 8.03 x 1.83 in (case included)	210 x 170 x 30 mm / 8.27 x 6.69 x 1.18 in	210 x 187 x 40 mm / 8.27 x 7.36 x 1.57 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	810 g / 1.79 lb (case included)	750 g / 1.65 lb	900 g / 2 lb
<b>Ingress Protection</b>	IP54		IP66	IP54	IP66	N/A		
<b>Certification</b>	CE, FCC, RoHS							

**Note:**

1. GV-AS100 / 110 / 120 / 1010 / 1110 is a controller with a built-in card reader. It cannot be used as an independent card reader.
2. GV-AS1010 and GV-AS1110 do not support third-party readers.
3. GV-AS1010 and GV-AS1110 only support TCP/IP connection with GV-GF1921, GV-GF1922 and GV-CR420.
4. GV-AS Controllers do not support 3rd party access control software.
5. All specifications are subject to change without notice.