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Compatibility Chart for GV-AS Controllers

Models		GV-AS100 / 110 / 120	GV-AS1010	GV-AS1110	GV-AS210 / 2110 / 2120 / 410 / 4110 / 4111 / 810 / 8110 / 8111 (Control Panel or Kit)	GV-EV48	GV-CS1320
Built-in Reader		O	O	O	X	X	O
ID Formats Supported by Built-in Reader		UID	GID / UID	GID / UID	X	X	GID / UID
Supported Interfaces for Readers							
Wiegand		O	X	X	O	X	X
RS-485		O	O	X	O	O	O
TCP/IP		O (With GV-ASBox / ASNet)	O	O	O	O	O
Compatibility with Readers							
GV Readers	GV-Reader 1251 / GV-SR1251	X	X	X	O (Wiegand / RS-485)	O (RS-485)	O (RS-485)
	GV-Reader 1352 V2 / GV-R1352 / GV-RK1352 / GV-DFR1352	O (Wiegand / RS-485) ⁽¹⁾	O (RS-485)	X	O (Wiegand / RS-485)	O (RS-485)	O (RS-485)
	GV-CR420	O (Wiegand / RS-485 / TCP / IP) ⁽¹⁾	O (RS-485 / TCP/IP)	O (TCP/IP)	O (Wiegand / RS-485 / TCP/IP)	O (RS-485 / TCP/IP)	O (RS-485 / TCP/IP)
	GV-GF1911 / 1912		X	X	O (Wiegand / RS-485* / TCP/IP)	O (RS-485 / TCP/IP)	X
	GV-GF1921 / 1922	O (TCP/IP)					
	GV-PCR310 Enrollment Reader	X					
HID and Other 3rd Party Readers		O (Wiegand, 26~64 bit format)	X		O (Wiegand, 26~64 bit format)	X	X
Compatibility with Cards							
GV Card & Key Fob	GV-AS ID E Card & Key Fob (125 KHz)		X		See "Compatibility with Cards" of the supported readers below		X
	GV-AS ID M Card & Key Fob (13.56 MHz)		O				O
	GV-AS ID F Card & Key Fob (13.56 MHz)		O				O
HID and Other 3rd Party Card & Key Fob			O ⁽²⁾				O ⁽²⁾

Note:

1. **GV-AS100 / 110 / 120** only supports TCP/IP interface through a GV-ASBox or GV-ASNet. For **GV-AS110 / 120**, a GV-ASBox or GV-ASNet is required to connect to readers through RS-485.
2. Only supports 13.56 MHz for ISO14443A (Mifare DESFire, Mifare Plus and Mifare Classic). If you are using third-party cards or key fobs, the reader must be under UID mode.
3. All specifications are subject to change without notice.
4. The support for RS-485 connection for GV-GF1911 / 1912 has ended from GV-AS21 / 41 / 81 series Controller firmware V1.41 and GV-ASManager V4.4.3.0.



Compatibility Chart for GV-Readers

Models		GV-Reader 1251 / GV-SR1251	GV-Reader 1352 V2 / GV-DFR1352 / GV-R1352 / GV-RK1352	GV-CR420	GV-GF1911 / 1912	GV-GF1921 / 1922	GV-PCR310 Enrollment Reader	GV-FR2020
Supported ID Formats		UID only	GV-Reader 1352 V2: UID only GV-R1352 / RK1352 / DFR1352: GID and UID	UID only				UID only
Supported Interfaces for Controllers								
Wiegand			O			X	X	X
RS485			O			X	X	X
TCP/IP			X		O		X	O
USB				X			O	X
Compatibility with Controllers								
GV-AS Controllers	GV-AS100 / 110 / 120	X	O (Wiegand / RS-485) ⁽¹⁾	O ⁽¹⁾ (Wiegand / RS-485 / TCP/IP)		X	X	X
	GV-AS1010	X	O (RS-485)	O (RS-485 / TCP/IP)	X	O (TCP/IP)		O (TCP/IP)
	GV-AS1110	X	X	O (TCP/IP)	X	O (TCP/IP)		
	GV-AS210 / 2110 / 2120 / 410 / 4110 / 4111 / 810 / 8110 / 8111 (Control Panel or Kit)		O (Wiegand / RS-485)	O (Wiegand / RS-485* / TCP/IP)		O (TCP/IP)		
	GV-EV48		O (RS485)	O (RS-485 / TCP/IP)		O (TCP/IP)		
	GV-CS1320	O (RS-485)	O (RS-485)	O (RS-485 / TCP/IP)	X	O (TCP/IP)		
HID and Other 3rd Party Controllers			O (Wiegand) ⁽²⁾			X		X

Note: The support for RS-485 connection for GV-GF1911 / 1912 has ended from GV-AS21 / 41 / 81 series Controller firmware V1.41 and GV-ASManager V4.4.3.0.



Models		GV-Reader 1251 / GV-SR1251	GV-Reader 1352 V2 / GV-DFR1352 / GV-R1352 / GV-RK1352	GV-CR420	GV-GF1911 / 1912	GV-GF1921 / 1922	GV-PCR310 Enrollment Reader	GV-FR2020
Compatibility with Cards								
GV Card & Key Fob	GV-AS ID E Card & Key Fob (125 KHz)	O		X				X
	GV-AS ID M Card & Key Fob (13.56 MHz)	X		O				O
	GV-AS ID F Card & Key Fob (13.56 MHz)							
HID and Other 3rd Party Card & Key Fob		O ⁽³⁾		O ⁽⁴⁾				O ⁽⁵⁾

Note:

1. **GV-AS100 / 110 / 120** only supports TCP/IP interface through a GV-ASBox or GV-ASNet. For **GV-AS110 / 120**, a GV-ASBox or GV-ASNet is required to connect to readers through RS-485.
2. **GV-Reader 1352 V2** supports Wiegand 26~40 bits; **GV-R1352 / RK1352 / DFR1352** supports Wiegand 26 / 34 bits; **GV-Reader 1251 / GV-SR1251 / GV-CR420 / GF1911 / GF1912** supports Wiegand 26 bits only.
3. Only supports 125 KHz (Proximity EM Card). If you are using third-party cards or key fobs, the reader must be under UID mode.
4. Only supports 13.56 MHz for ISO14443A (Mifare DESFire, Mifare Plus and Mifare Classic). **GV-Reader 1352 V2 / GV-PCR310** supports Mifare Classic only.
5. Only supports 13.56 MHz, 26-bit Wiegand card formats.
6. All specifications are subject to change.



Number of Readers Supported by GV-AS Controllers

[GV-Reader 1352 V2](#) / [GV-R1352](#) / [GV-RK1352](#) / [GV-DFR1352](#)

GV-AS Controllers	Wiegand	RS-485	TCP/IP
GV-AS100	1	1	Readers listed do not support TCP/IP
GV-AS110 / 120	1	Not supported	
GV-AS1010	Not supported	2	
GV-AS1110	Not supported	Not supported	
GV-AS100 / 110 / 120 with GV-ASBox	2	4	
GV-AS100 / 110 / 120 with GV-ASNet	Not supported	2	
GV-AS210 / 2110 / 2120 Kit	4	8	
GV-AS410 / 4110 Control Panel	8	8	
GV-AS410 / 4110 / 4111 Kit			
GV-AS810 / 8110 Control Panel	8	16	
GV-AS810 / 8110 / 8111 Kit			
GV-EV48	Not supported	2	
GV-CS1320	Not supported	2	

[GV-Reader 1251](#) / [GV-SR1251](#)

GV-AS Controllers	Wiegand	RS-485	TCP/IP
GV-AS100 / 110 / 120 / 1010 / 1110	Not supported	Not supported	Readers listed do not support TCP/IP
GV-AS100 / 110 / 120 with GV-ASBox	Not supported	Not supported	
GV-AS100 / 110 / 120 with GV-ASNet	Not supported	Not supported	
GV-AS210 / 2110 / 2120 Kit	4	8	
GV-AS410 / 4110 Control Panel	8	8	
GV-AS410 / 4110 / 4111 Kit			



GV-Reader 1251 / GV-SR1251

GV-AS Controllers	Wiegand	RS-485	TCP/IP
GV-AS810 / 8110 Control Panel GV-AS810 / 8110 / 8111 Kit	8	16	Readers listed do not support TCP/IP
GV-EV48	Not supported	2	
GV-CS1320	Not supported	2	

GV-CR420

	Wiegand	RS-485	TCP/IP
GV-AS100	1	1	Not supported
GV-AS110 / 120	1	Not supported	Not supported
GV-AS1010	Not supported	2	2
GV-AS1110	Not supported	Not supported	2
GV-AS100 / 110 / 120 with GV-ASBox	2	4	4
GV-AS100 / 110 / 120 with GV-ASNet	Not supported	2	2
GV-AS210 / 2110 / 2120 Kit	4	8	8
GV-AS410 / 4110 Control Panel GV-AS410 / 4110 / 4111 Kit	8	8	8
GV-AS810 / 8110 Control Panel GV-AS810 / 8110 / 8111 Kit	8	16	16
GV-EV48	Not supported	2	2
GV-CS1320	Not supported	2	2



GV-GF1911 / GV-GF1912

	Wiegand	RS-485	TCP/IP
GV-AS100	1	1	Not supported
GV-AS110 / 120	1	Not supported	Not supported
GV-AS1010 / 1110	Not supported	Not supported	Not supported
GV-AS100 / 110 / 120 with GV-ASBox	2	4	4
GV-AS100 / 110 / 120 with GV-ASNet	Not supported	2	2
GV-AS210 / 2110 / 2120 Kit	4	8*	8
GV-AS410 / 4110 Control Panel GV-AS410 / 4110 / 4111 Kit	8	8*	8
GV-AS810 / 8110 Control Panel GV-AS810 / 8110 / 8111 Kit	8	16*	16
GV-EV48	Not supported	2	2
GV-CS1320	Not supported	Not supported	Not supported

Note: The support for RS-485 connection for GV-GF1911 / 1912 has ended from GV-AS21 / 41 / 81 series Controller firmware V1.41 and GV-ASManager V4.4.3.0.

GV-GF1921 / GV-GF1922

	Wiegand	RS-485	TCP/IP
GV-AS100	Readers listed do not support Wiegand	Readers listed do not support RS-485	Not supported
GV-AS110 / 120			Not supported
GV-AS1010			2
GV-AS1110			2
GV-AS100 / 110 / 120 with GV-ASBox			Not supported
GV-AS100 / 110 / 120 with GV-ASNet			Not supported
GV-AS210 / 2110 / 2120 Kit			8



GV-GF1921 / GV-GF1922

	Wiegand	RS-485	TCP/IP
GV-AS410 / 4110 Control Panel GV-AS410 / 4110 / 4111 Kit			8
GV-AS810 / 8110 Control Panel GV-AS810 / 8110 / 8111 Kit	Readers listed do not support Wiegand	Readers listed do not support Wiegand	16
GV-EV48			2
GV-CS1320			2