



CVX-1200

Introduction

In an industry first, Cypress Computer Systems has developed a universal device capable of translating hundreds of reader-technology outputs into almost any other standard or proprietary format.

The CVX-1200 is perfect for connecting dissimilar card, tag, badge, and biometric readers to previously incompatible controllers. Whether it's a Wiegand, MagStripe, BarCode, ASCII, or F/2F reader, installers and system integrators now have to stock only a single field programmable unit to product the required output.

Features

- Currently supports over 100 Card Reader Formats.
- Pluggable connectors for easy installation and replacement
- Field configurable Interface and formats.
- Wiegand, MagStripe, BarCode, F/2F, ASCII Interface
- Low power consumption
- Low profile snap-in mounting
- Future expansion up to 255 formats
- Custom formats factory programmable
- Built-in Pullup resistor option

Applications

- Attaching legacy card readers to new control panels
- Implementing special or custom equipment integration
- Attaching Prox readers to POS equipment
- Reconfigurable for next upgrade or infrastructure changeover
- Visitor lobby integration
- Toll-Tags • CASI-Rusco • CardKey formats supported
- Time and Attendance Integration
- Material Pull Stations
- Avoids costly and time consuming rebadging
- Vending • Parking Applications
- Data Collection Integration



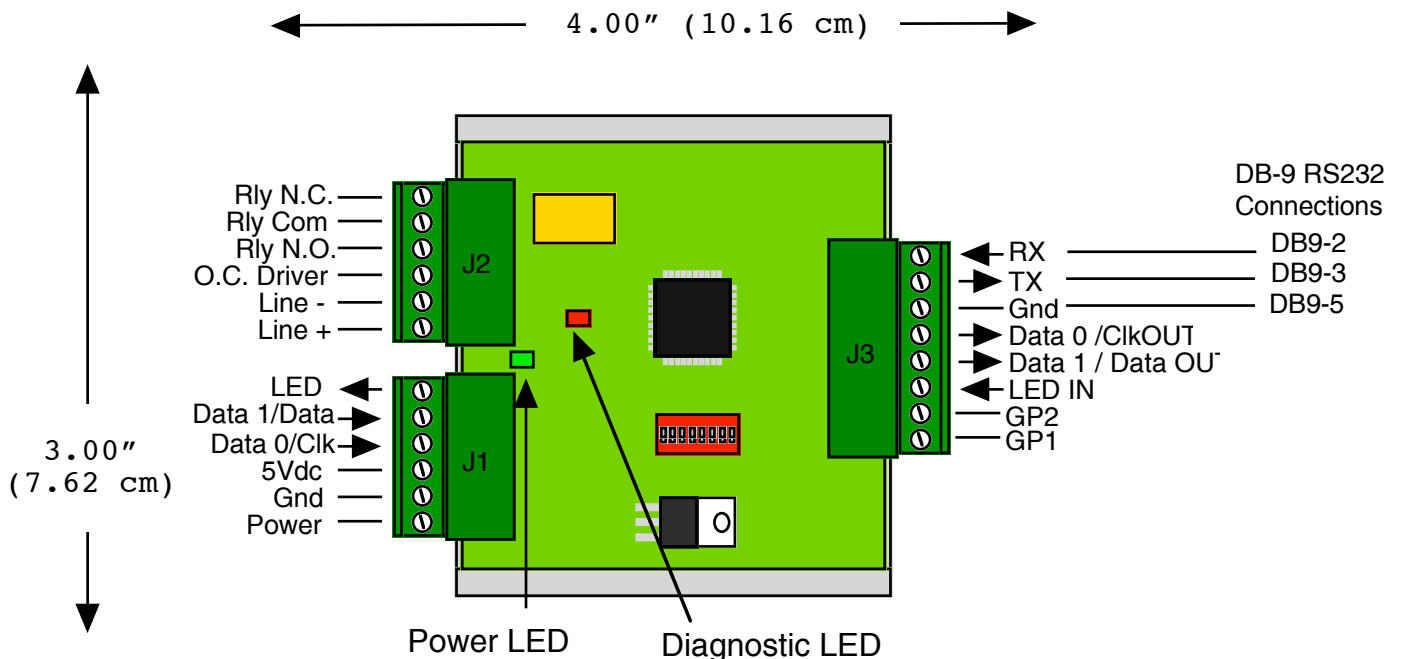
SS-CVX-1200 v1.13 251111
Firmware Rev >=1.37



Cypress Computer Systems, Inc. • www.cypressworld.com • CVX-1200 Specification Sheet v1.13

Specifications

Physical	Snap track Mounting Size 4 x 3 x .75"	
Temp	Storage (-55°C to +150°C) Operating (-40°C to +85°C)	
Humidity	95% (non-condensing)	
Power	Input	Unreg Input 8 to 24vDC @ 100ma Max +5vDC @ 100ma Max (10% ripple)
	Output (with 8 to 24v Unreg IN)	+5vDC @ 250 ma
Reader Input	Interface	Reader - Wiegand, Strobed (Clock & Data), F/2F LED - 0 to 30v
	Format	Wiegand, ABA, BarCode, ASCII, Proprietary
Controller Output	Interface	Reader - Wiegand, Strobed (Clock & Data), F/2F LED - 0 to 30v
	Format	Wiegand, ABA, BarCode, ASCII, Proprietary
Misc	Relay	Contacts - 1a @120Vac
	GP I/O	0 - 5v Logic Levels



STATEMENT OF COMPLIANCE

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

#	DIP Switch Setting								Application			
									Input		Output	
	1	2	3	4	5	6	7	8	Interface	Format	Interface	Format
0									Test Mode			
1	X								Wiegand	24 to 40 bits	RS-232 (9600)	13 Digits,CR
2		X							Wiegand	24 to 40 bits	RS-232 (2400)	13 Digits,CR
3	X	X							Wiegand	24 to 40 bits	RS-232 (1200)	13 Digits,CR
4			X						Wiegand	24 to 48 bits	RS-232 (9600)	10 Digits,CR
5	X		X						Wiegand	24 to 48 bits	RS-232 (2400)	10 Digits,CR
6		X	X						Wiegand	24 to 48 bits	RS-232 (1200)	10 Digits,CR
7	X	X	X						Wiegand	24 to 48 bits	RS-232 (9600)	Dec/Hex Digits
8				X					Wiegand	24 to 48 bits	RS-232 (2400)	Dec/Hex Digits
9	X			X					Wiegand	24 to 48 bits	RS-232 (1200)	Dec/Hex Digits
10		X		X					Wiegand	1 to 48 bits	RS-232 (9600)	Hex Digits
11	X	X		X					Wiegand	1 to 48 bits	RS-232 (2400)	Hex Digits
12			X	X					Wiegand	1 to 48 bits	RS-232 (1200)	Hex Digits
13	X		X	X					Wiegand	44 bits	RS-232 (9600)	12 Digits
14		X	X	X					Wiegand	44 bits	RS-232 (2400)	12 Digits
15	X	X	X	X					Wiegand	44 bits	RS-232 (1200)	12 Digits
16					X				Wiegand	44/32 bits	RS-232 (9600)	12/10 Digits
17	X				X				Wiegand	44/32 bits	RS-232 (2400)	12/10 Digits
18		X			X				Wiegand	44/32 bits	RS-232 (1200)	12/10 Digits
19	X	X			X				Wiegand	1 to 96 bits	RS-232 (9600)	24 Hex/Dec
20			X		X				Wiegand	1 to 96 bits	RS-232 (2400)	24 Hex/Dec
21	X		X		X				Wiegand	1 to 96 bits	RS-232 (1200)	24 Hex/Dec
22		X	X		X				Wiegand	1 to 40 bits	RS-232 (9600)	HID Hex
23	X	X	X		X				Wiegand	1 to 40 bits	RS-232 (2400)	HID Hex
24				X	X				Wiegand	1 to 40 bits	RS-232 (1200)	HID Hex
25	X			X	X				Strobed	ABA	RS-232 (9600)	24 Hex
26		X		X	X				Strobed	ABA	RS-232 (2400)	24 Hex
27	X	X		X	X				Strobed	ABA	RS-232 (1200)	24 Hex
28			X	X	X				F/2F	Raw-All bits	RS-232 (9600)	ASCII Hex
29	X		X	X	X				F/2F	ABA	RS-232 (9600)	ASCII Hex
30		X	X	X	X				F/2F	ABA	Wiegand	37 Bit Custom
31	X	X	X	X	X				TEST	MODE	RS-232 (9600)	Test String

Continued

#	DIP Switch Setting								Application			
									Input		Output	
	1	2	3	4	5	6	7	8	Interface	Format	Interface	Format
32						X			Wiegand Output TEST MODE- 26 Bit FC =123 Badge = 4567			
33	X					X			F/2F	ABA	Wiegand	37 Bit Custom
34		X				X			Dallas iButton	64 Bit Binary	Wiegand	26 Bit
35	X	X				X			Wiegand	ABA	RS-232 (9600)	ASCII
36			X			X			Wiegand	ABA	RS-232 (2400)	ASCII
37	X		X			X			Strobed Fall	ABA	RS-232 (9600)	24 Hex ASCII
38		X	X			X			Wiegand	24 to 40 bits	RS-232 (9600)	5 Digits, CR
39	X	X	X			X						
40				X		X						
41	X			X		X						
42		X		X		X						
43	X	X		X		X						
44			X	X		X						
45	X		X	X		X						
46		X	X	X		X						
47	X	X	X	X		X						
48					X	X						
49	X				X	X						
50		X			X	X						
51	X	X			X	X						
52			X		X	X						
53	X		X		X	X						
54		X	X		X	X						
55	X	X	X		X	X						
56				X	X	X						
57	X			X	X	X						
58		X		X	X	X						
59	X	X		X	X	X						
60			X	X	X	X						
61	X		X	X	X	X						
62		X	X	X	X	X						
63	X	X	X	X	X	X			TEST	MODE	FC = 246	Badge = ++

Continued

#	DIP Switch Setting								Application			
									Input		Output	
	1	2	3	4	5	6	7	8	Interface	Format	Interface	Format
64							X		Strobed ABA Output TEST MODE Number = 123456789			
65	X						X		RS-232 (9600)	10 Dec	Wiegand	26 bit
66		X					X		RS-232 (2400)	10 Dec	Wiegand	26 bit
67	X	X					X		RS-232 (1200)	10 Dec	Wiegand	26 bit
68			X				X		RS-232 (9600)	12 Hex	Wiegand	Variable
69	X		X				X		RS-232 (2400)	12 Hex	Wiegand	Variable
70		X	X				X		RS-232 (1200)	12 Hex	Wiegand	Variable
71	X	X	X				X		RS-232 (9600)	TransCore	Wiegand	26 bit
72				X			X		RS-232 (9600)	TransCore	Wiegand	Xico 6
73	X			X			X		RS-232 (9600)	TransCore	Wiegand	37
74		X		X			X		RS-232 (9600)	TransCore	Wiegand	26
75	X	X		X			X		RS-232 (9600)	TransCore	Wiegand	26 (9117)
76			X	X			X		RS-232 (9600)	TransCore	Wiegand	26 (9161)
77	X		X	X			X		RS-232 (9600)	TransCore	Wiegand	37
78		X	X	X			X		RS-232 (9600)	TransCore	Wiegand	37
79	X	X	X	X			X		RS-232 (9600)	ASCII	Strobed	ABA
80					X		X		RS-232 (2400)	ASCII	Strobed	ABA
81	X				X		X		RS-232 (1200)	ASCII	Strobed	ABA
82		X			X		X		RS-232 (9600)	ASCII	Strobed NoPU	ABA
83	X	X			X		X		RS-232 (9600)	ASCII Decimal	F/2F	12 digit ABA
84			X		X		X		RS-232 (9600)	TransCore 26b	Wiegand	26 bit
85	X		X		X		X		RS-232 (9600)	TransCore	Wiegand	26 bit
86		X	X		X		X		RS-232 (9600)	ASCII Decimal	Wiegand	36 bit
87	X	X	X		X		X		RS-232 (9600)	ASCII Decimal	Wiegand	37 bit
88				X	X		X		RS-232 (9600)	16 Hex	Wiegand	Var to 64 bits
89	X			X	X		X					
90		X		X	X		X					
91	X	X		X	X		X					
92			X	X	X		X					
93	X		X	X	X		X					
94		X	X	X	X		X					
95	X	X	X	X	X		X					

Continued

#	DIP Switch Setting								Application			
									Input		Output	
	1	2	3	4	5	6	7	8	Interface	Format	Interface	Format
96						X	X		Reserved			
97	X					X	X		Wiegand	24-40 bit	Wiegand	26 bit
98		X				X	X		Wiegand	24-40 bit	Wiegand	26 bit
99	X	X				X	X		Wiegand	35 bit	Wiegand	26 bit
100			X			X	X		Strobed	ABA/ 12 digits	Wiegand	26 bit
101	X		X			X	X		Strobed	ABA/Last 8 dig.	Wiegand	26 bit
102		X	X			X	X		Wiegand	26 bit	Strobed/ABA	12 digits
103	X	X	X			X	X		Wiegand	26 bit	Strobed/ABA	10 digits
104				X		X	X		Wiegand	26 bit	Wiegand	26 bit FC=215
105	X			X		X	X		Wiegand	32 bit Kastle	Wiegand	26 bit standard
106		X		X		X	X		Strobed Fall	ABA/ 12 digits	Wiegand	26 bit
107	X	X		X		X	X		Strobed Fall	ABA/Last 8 dig.	Wiegand	26 bit
108			X	X		X	X		Wiegand	26 bit	Wiegand	26 bit FC=0
109	X		X	X		X	X		Strobed	ABA/Last 5 dig	Wiegand	26 bit FC=0
110		X	X	X		X	X		Wiegand	30 bit Sentex	Wiegand	26 bit FC=0
111	X	X	X	X		X	X					
112					X	X	X					
113	X				X	X	X					
114		X			X	X	X					
115	X	X			X	X	X					
116			X		X	X	X					
117	X		X		X	X	X					
118		X	X		X	X	X					
119	X	X	X		X	X	X					
120				X	X	X	X					
121	X			X	X	X	X					
122		X		X	X	X	X					
123	X	X		X	X	X	X					
124			X	X	X	X	X					
125	X		X	X	X	X	X					
126		X	X	X	X	X	X					
127	X	X	X	X	X	X	X					

CVX-1200 Legacy Compatible formats

Converter	Input	Output	Settings (#)
CVT2232	Wiegand 24 to 40	Serial 13 Digits with <CR>	1 , 2 , 3
CVT-2111	Wiegand 1 to 40	Serial Dec/Hex Digits	7, 8, 9
CVT-2110	Wiegand 1 to 48	SerialHex Digits	10 , 11 , 12
CVT-2144	Wiegand 44	Serial12 Digits	13 , 14 , 15
CVT-2145	Wiegand 44/32	Serial 12/10 Digits	16 , 17 , 18
CVT-2152	Wiegand 1 to 96	Serial 24 Hex Dec	19 , 20 , 21
CVT-2151	Wiegand 1 to 40	Serial HID Hex	22 , 23 , 24
CVT-2201	Strobed/ABA	Serial 24 Hex	25 , 26 , 27
CVT-2403	F/2F Raw	Serial ASCII Hex	28
CVT-2404	F/2F ABA	Serial ASCII Hex	29
CVT-2405	F/2F ABA	Wiegand 37 bit Custom	30
CVT-2406	F/2F ABA	Wiegand 37 bit Custom	33
CVT-9102	Serial 10 Dec	Wiegand 26	65 , 66 , 67
CVT-9110	Serial 12 Hex	Wiegand Variable	68 , 68 , 70
CVT-9109	Serial Transcore	Wiegand 26	71
CVT-9129	Serial Transcore	Xico 6	72
CVT-9132	Serial Transcore	Wiegand 37	73
CVT-9137	Serial Transcore	Wiegand 26	74
CVT-9117	Serial Transcore	Wiegand 26	75
CVT-9161	Serial Transcore	Wiegand 26	76
CVT-9162	Serial Transcore ,	Wiegand 37	77
CVT-9164	Serial Transcore	Wiegand 37	78
CVT-9201	Serial ASCII	Strobed / ABA	79,80,81,82
CVT-5932	Dallas iButton 1Wire	Wiegand 26	34
CVT-9165	Serial Transcore 26 bit	Wiegand 26	84
CVT-0026	Wiegand 24-40 bit	Wiegand 26	97
CVT-0026A	24-40 bit, spec 34 bit pr.	Wiegand 26	98
CVT-3526	Wiegand 35 bit C1000	Wiegand 26	99
CVT-5100	12 digit Strobed ABA	Wiegand 26	100
CVT-5100A	Last 8 digit Strobed ABA	Wiegand 26	101
CVT-5200	Wiegand 26 and 35 bit	12 Digit Strobed/ABA	102

CVX-1200 Legacy Comptable formats

Converter	Input	Output	Settings (#)
CVT-5201	Wiegand 26 bit	10 digit Strobed/ABA	103
CVT-2211	Wiegand ABA	Serial ASCII	35,36
CVT-0126	Wiegand 26 bit	Wiegand 26 bit fixed FC=215	104
CVT-9117A	Serial Transcore	Wiegand 26	85
CVT-3226	Wiegand 32 Bit Kastle	Wiegand 26 bit Standard	105
CVT-9133	Serial ASCII	Wiegand 36 bit Special	86
CVT-9501	Serial ASCII 1-12 digits	F/2F	83
CVT-2485	Wiegand 24-40	Serial ASCII RS-485	1,2,3
CVT-9485	Serial ASCII RS-485	Wiegand 24-40	65,66,67
CVT-2201F	Strobed/ABA Fall Edge	Serial 24 Hex	37
CVT-5100F	Strobed/ABA Fall Edge	Wiegand 26 bit	106
CVT-5100AF	Strobed/ABA Fall Edge	Wiegand 26 bit	107
CVX-2232-5	Wiegand 24-40	Serial- Last 5 digits	38
CVX-9174	Serial ASCII 1-10 Dec	Wiegand 37 Bit FC = 1	87
CVT-0126B	Wiegand 26 bit	Wiegand 26 bit fixed FC=0	108

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