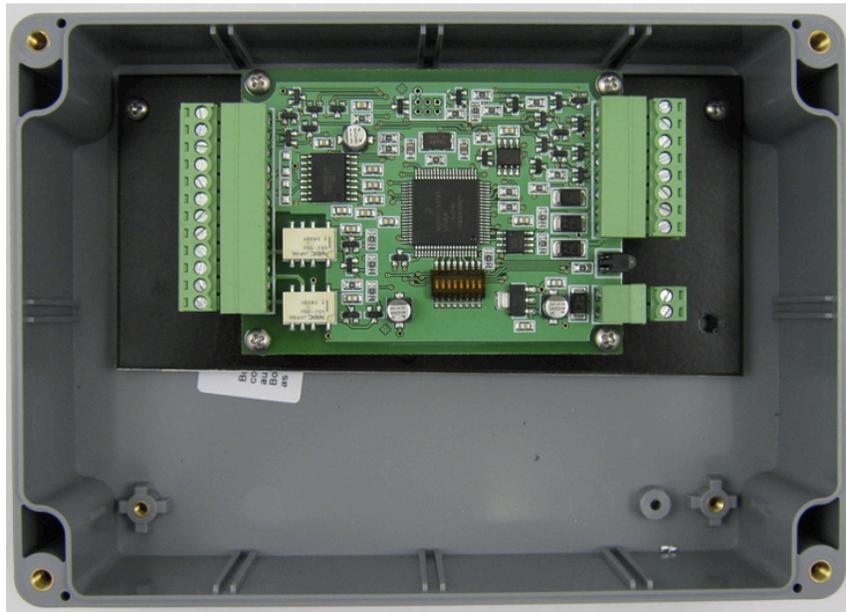




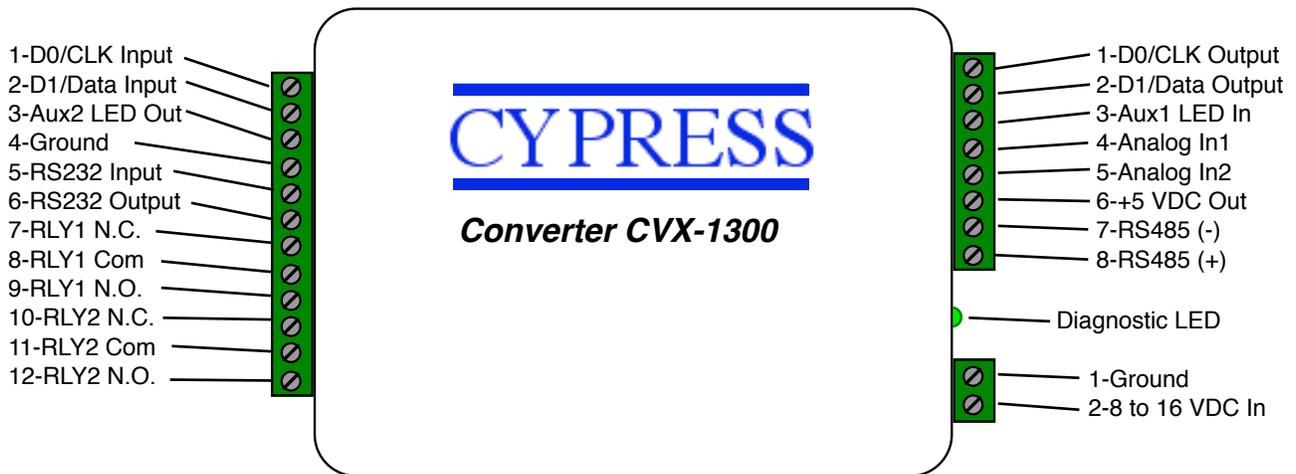
# CVX-1468

Wiring Diagram and Quick Reference  
*DataBender® Universal Data Converter*



WD-CVX-1468 v1.08 301023-1

## External connections and product description



Note: Terminals shown for reference. Connections may or may not be utilized based on converter function.

The Cypress CVX-1468 is based on the CVX-1200 series converter. For most legacy converter functions, the DIP switch settings will be set the same as with the Cypress CVX-1200.

This document provides a quick reference to the CVX-1468 converter connections and switch settings. Refer to the CVX-1468 operating manual for detailed information on specific conversion functions.

A Diagnostic LED is provided to provide operational status of the converter:

Diagnostic LED OFF - No power

Diagnostic LED Blinking Green - Unit is operating

Diagnostic LED Red - Undefined DIP Switch Setting

## CVX-1468 Description

The CVX-1468 includes all of the CVX-1300 converter functions. Refer to the CVX-1300 manual for the operational details and settings of those functions. DIP Switch coding of the CVX-1300 functions is logically opposite of those given in the CVX-1300 DIP Switch Table (Reverse the ON and OFF positions from those given in the table).

CVX-1468 Specific Information for each additional setting:

The CVX-1468 is a specialized converter for Transcore data conversion functions.

The CVX-1468 also includes special processing of the CVX-1300 Transcore conversion that limits repeat reads for all Transcore conversion settings. Read data is held in a compare buffer, if a subsequent read has the same data, then the read will not be processed. The data is held in the buffer for 5 seconds after which time the same read will be processed. New (different) reads are always process immediately.

If the incoming serial data stream from the Transcore reader stops for 2 seconds, the buffer is purged and any subsequent reads will be treated as a new read.

## CVX-1468 Function QuickReference

### Settings specific to the CVX-1468

DIP Switch settings for the 1368 functions have changed

Old 1368 Setting (if exists) / New 1468 Setting

#### Setting #117

Input Indala Wiegand 26b: PFFFFFFFFBBBBBBBBBBBBBBBBBP  
8b FC, 16b Badge  
Output Serial: <STX>00000000FFFBBBBB<ETX>

#### Setting #118

Input Wiegand 37b: PFFFFFFFFBBBBBBBBBBBBBBBBBBBBBBBBBBBBBP  
6b FC, 29b Badge  
Output Serial: <STX>00000FFFBBBBBBBBB<ETX>

#### Setting #119

SRRXXX to 26 bit Wiegand  
Processes Transcore 26 bit ASCII tags

#### Setting #120

Wiegand HID40 to WPS serial  
Input Wiegand 40b: XXXXFFFFFFFFFFFFFFFFBBBBBBBBBBBBBBBBBBBBXXXXXXX  
12b FC, 16b Badge  
Output Serial: <STX>000000FFFFFFBBBBB<ETX>

#### Setting #1 / Setting #121

Wiegand 33b to WPS serial  
Wiegand Input = PFFFFFFFFBBBBBBBBBBBBBBBBBBBBBBBBBBBBBP  
Serial Output = <STX>000000FBBBBBBBBB<ETX>

Facility code is decoded as 3 digit number, only last (rightmost) digit is placed into output stream

#### Setting #35 / Setting #122

Same function as the CVX-1399 DIP Switch #3 ON (CVX-1399B)

#### Setting #86 / Setting #124 26 bit Wiegand output

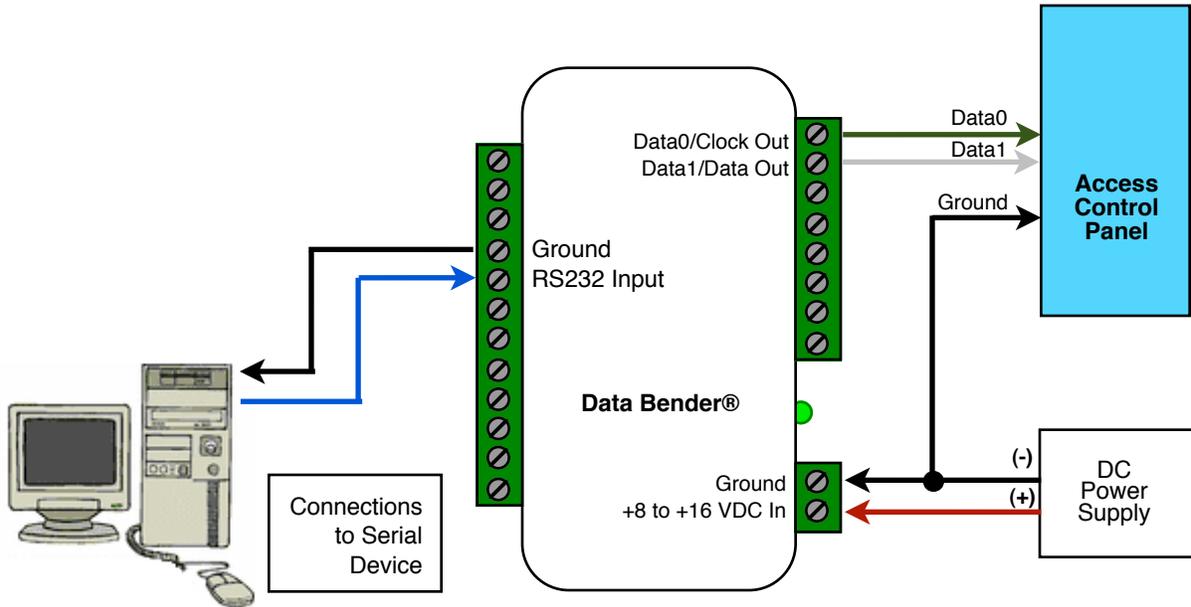
Processes Transcore tags using Generic process  
Processes Transcore 26 bit ASCII tags

#### Setting #87 / Setting #125

Processes Transcore 26 bit ASCII tags, but generates 34 bit Cardkey output.

#### Setting #88 / Setting #126 37 bit Wiegand output

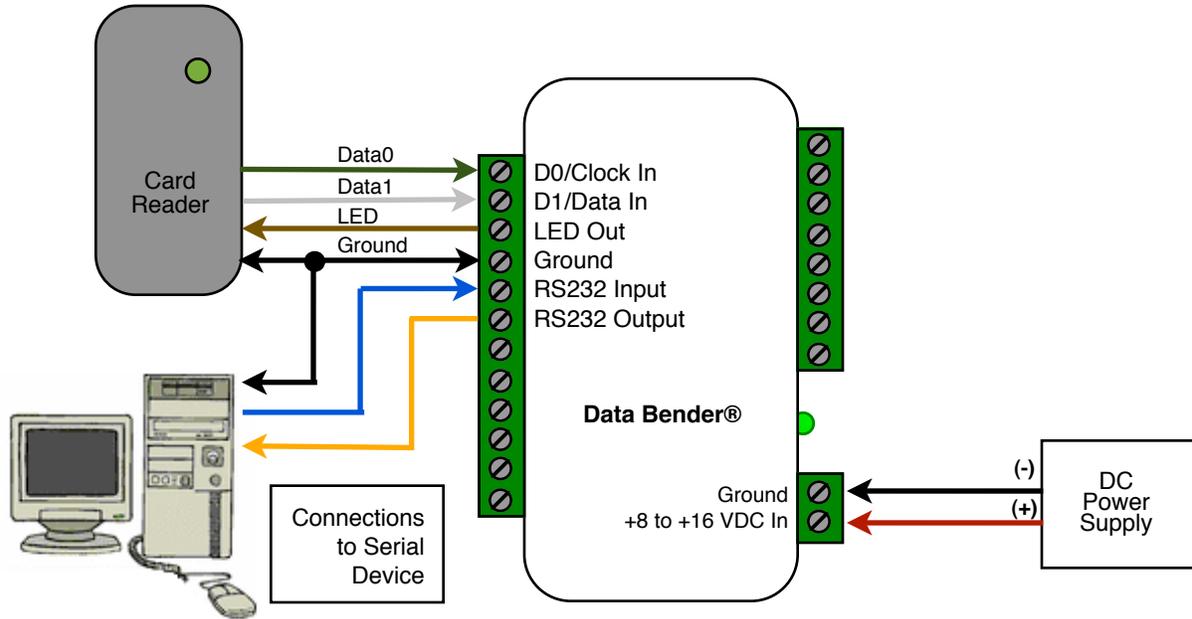
## Wiring Diagram - Serial to Wiegand (Typical Connections)



DB-9 Connections  
Direct to PC Com Port

CVX Terminal	DB9 Pin
Ground	5
RS232 Input	3

## Wiring Diagram - Wiegand to Serial (Typical Connections)



DB-9 Connections  
Direct to PC Com Port

CVX Terminal	DB9 Pin
Ground	5
RS232 Input	3
RS232 Output	2

### Reader Power Not Shown

Supply power to reader according to reader supplier specifications. The CVX-1468 only requires Data and Ground connections to the reader. (Reader power supply and CVX board should have common ground connection.)



## DIP Switch Application Table

#	DIP SWITCH SETTING								INPUT		OUTPUT	
	1	2	3	4	5	6	7	8	Interface	Format	Interface	Format
96						X	X		Reserved			
97	X					X	X					
98		X				X	X					
99	X	X				X	X					
100			X			X	X					
101	X		X			X	X					
102		X	X			X	X					
103	X	X	X			X	X					
104				X		X	X					
105	X			X		X	X					
106		X		X		X	X					
107	X	X		X		X	X					
108			X	X		X	X					
109	X		X	X		X	X					
110		X	X	X		X	X					
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	Wiegand	26 Bit Indala	RS-232	WP 16 digits	
118		X	X		X	X	X	Wiegand	37 bit	RS-232	WP 16 digits	
119	X	X	X		X	X	X	RS-232 (9600)	Transcore 3 char	Wiegand	26 bit	
120				X	X	X	X	Wiegand	HID40	RS-232	WPS 16 digits	
121	X			X	X	X	X	Wiegand	33b	RS-232	WPS	
122		X		X	X	X	X	Wiegand/422	26 bit / Amtech	RS-232 (9600)	ASCII	
123	X	X		X	X	X	X	RS-232 (9600)	Transcore	Wiegand	Special 37b	
124			X	X	X	X	X	RS-232 (9600)	Transcore / 26b	Wiegand	26 bit	
125	X		X	X	X	X	X	RS-232 (9600)	Transcore 26 bit	Wiegand	34 bit	
126		X	X	X	X	X	X	RS-232 (9600)	Transcore	Wiegand	37 bit	
127	X	X	X	X	X	X	X					

**Note: X = Switch OFF**