

Serial ASCII to Wiegand Converter

MA1506 is designed to convert serial ASCII string to Wiegand data. The converter can automatically convert 96-bit EPC GEN 2 tag ID in Terse form into 26-bit Wiegand output. The 26-bit Wiegand output is computed from the last 24-bit data in the tag ID.

1. Specification

1.1 Communications:

9600 BPS ASYNC, 8 bits, 1 Stop, No Parity.

2. Conversion Format

2.1 Input Format

96-bit EPC GEN 2 tag ID in Terse form with CR HEX <0D> signals end of string.

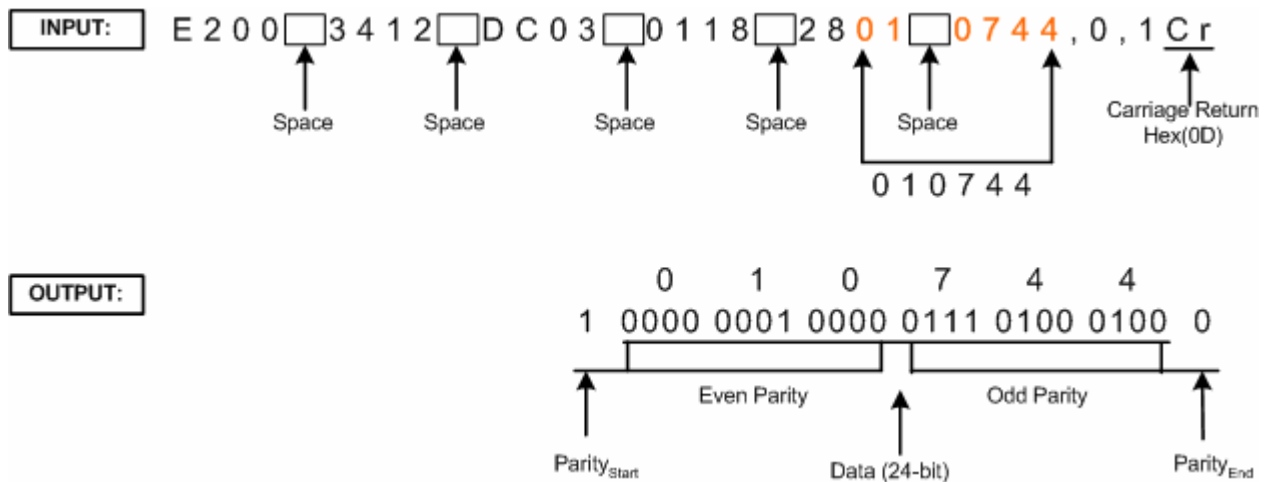
2.2 Output Format

Standard 26-bit Wiegand format. The 26-bit Wiegand output is computed from the last 24-bit data in the tag ID.

2.3 Example

Input: E200 3412 DC03 0118 2801 0744,0,1

Output: 1 0000 0001 0000 0111 0100 0100 0



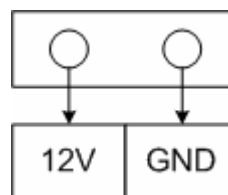
3. Connectors:

There are total 3 pluggable connectors and one DB9 male connector located on the MA1480 board serving different functions as described below.

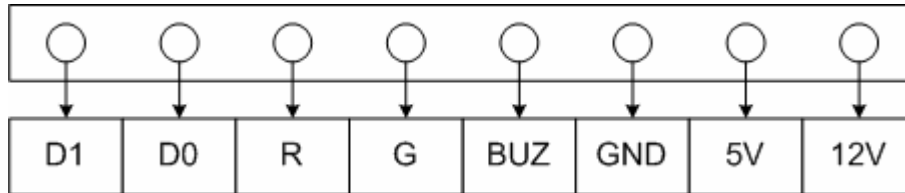
Connector Symbol	Description
J1	9V – 12V DC Power Supply
J2	F2F Data Output Port
J3	Reserved.

3.1 Connector J1

Connector J1 Port Assignment	
Designator	Description
12V	12V DC Power Supply In
GND	Power Supply Ground



3.2 Connector J2



Connector J2 Port Assignment	
Designator	Description
D1	D1
D0	D0
R	Reserved
G	Reserved
BUZ	Reserved
GND	GND
5V	5V Output
12V	12V Output

3.3 DB9 Male

DB9 Male Port Pin Assignment	
Designator	Description
1	Unused
2	TX data to terminal
3	RX data from terminal
4	Unused
5	Ground
6	Unused
7	Unused
8	Unused
9	Unused

