

## Serial ASCII to Wiegand Converter

**MA2506** 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.

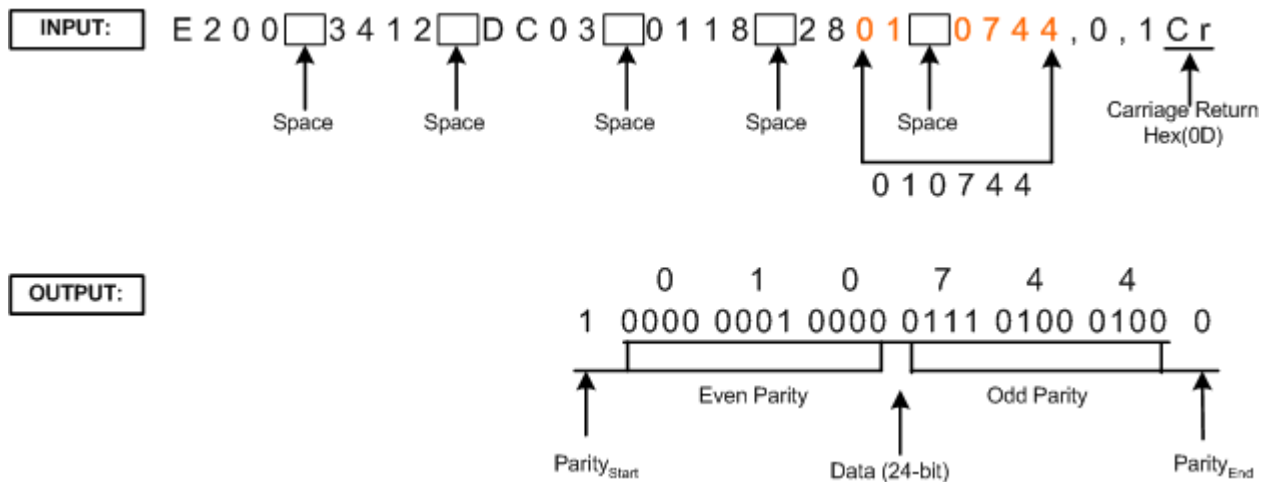
#### 2.2 Output Format

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



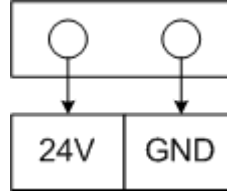
## 3. Connectors:

There are total 8 pluggable connectors located on the MA2506 board serving different functions as described below.

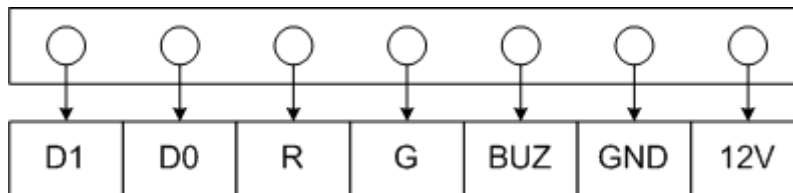
Connector Symbol	Description
J1	24V DC Power Supply
J2	Wiegand Reader Port
J3	RS232 Port
J4	Not used.
J5	Not used.
J6	Not used.
J7	Not used.
J8	Not used.

## 3.1 Connector J1

Connector J1 Port Assignment	
Designator	Description
24V	24V DC Power Supply In
GND	Power Supply Ground



## 3.2 Connector J2



Connector J2 Port Assignment	
Designator	Description
D1	Wiegand Data 1
D0	Wiegand Data 0
R	Not used.
G	Not used.
BUZ	Not used.
GND	To Reader Ground
12V	To 12V Reader Supply

### 3.3 Connector J3

Connector J3 Port Assignment	
Designator	Description
TX	TX data to terminal
RX	RX data from terminal
GND	Ground

