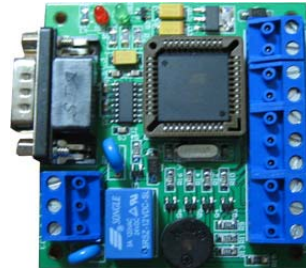


Serial ASCII to Wiegand Converter

MA1508 is designed to convert serial ASCII character string to Wiegand data in the format of 26-bit Wiegand output. Embedded control and non-numeric data is ignored by the MA1508 except for Carriage Return (CR, HEX <0D>). Numeric characters are accumulated until the CR character is received. The accumulated numeric characters are converted and output in 26-bit Wiegand format.



1. Specification

1.1 Communications:

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

2. Conversion Format

2.1 Input Format

Numeric characters with CR HEX <0D> signals end of string.

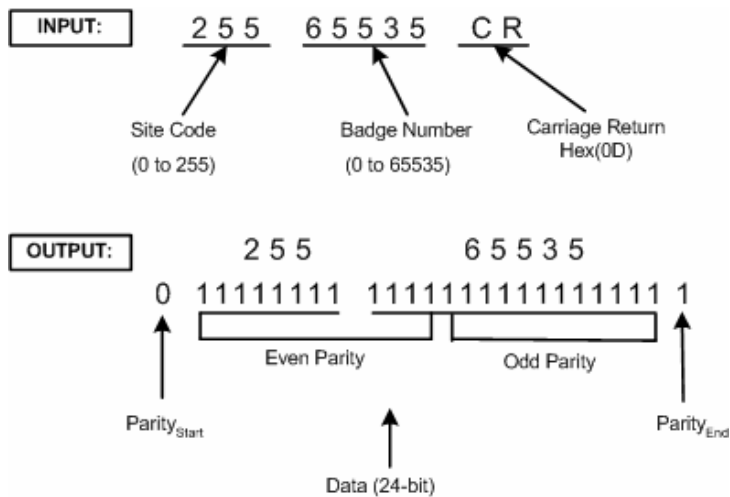
2.2 Output Format

Standard 26-bit Wiegand format.

2.3 Example

Input: 25565535CR

Output: 0 111111111111111111111111 1



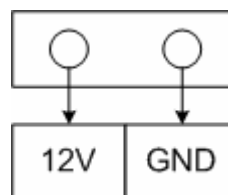
3. Connectors:

There are total 3 pluggable connectors and one DB9 male connector located on the MA1508 board serving different functions as described below.

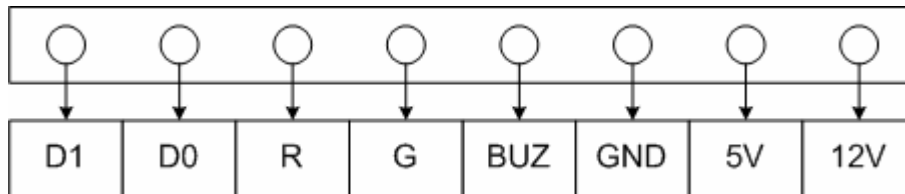
| Connector Symbol | Description |
|------------------|--------------------------|
| J1 | 9V – 12V DC Power Supply |
| J2 | Wiegand Port |
| J3 | Reserved. |

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 | Data 1 |
| D0 | Data 0 |
| 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 |

