

Serial ASCII to F2F Converter

MA1480 is designed to convert serial ASCII string to F2F data. Valid inputs can be 1 to 12 standard ASCII numerical character strings. Outputs are standard F2F format. 5 bits per character with odd parity.

1. Specification

1.1 Communications:

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

2. Conversion Format

2.1 Input Format

1 to 12 standard ASCII numerical characters with CR HEX <0D> signals end of string. If non-numeric ASCII data is found, string is terminated at that point and accumulated data is output.

2.2 Output Format

Standard F2F format. Each character is represented by 5 bits consisting of 4 data bits and one odd parity bit. Zeros are padded for fixed output of 12 characters.

2.3 Example

Input: 123456Cr

Output: B000000123456F(LRC)

B = Start character

F = Stop character

(LRC) = Longitudinal redundancy check

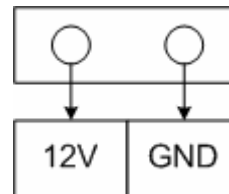
3. Connectors:

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

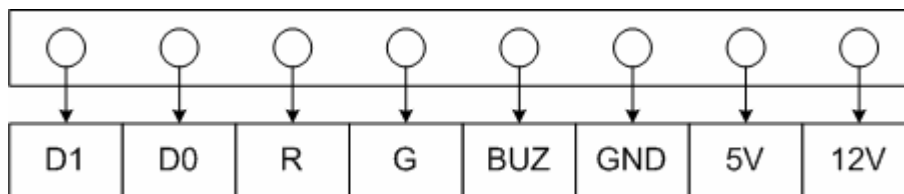
Connector Symbol	Description
J1	9V – 12V DC Power Supply
J2	F2F Data Output Port
J3	Reserved.

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	F2F
D0	Reserved
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

