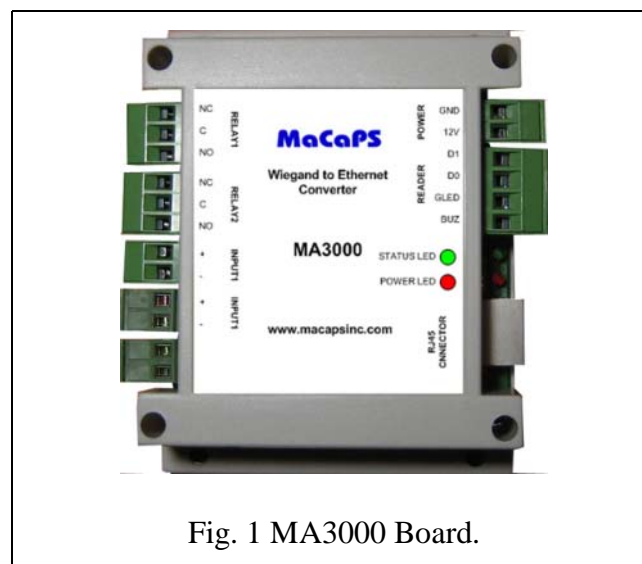


## Wiegand to Ethernet Converter

**MA3000** is a Wiegand to Ethernet converter. The converter accepts Wiegand data from 26-bit up to 66 bit. The host communicates with MA3000 in a command-reply approach using UDP packets. The host sends command to MA3000; and MA3000 replies to the host with board information. The information includes on board relay status, input status, and attached reader status. The reader status includes the buzzer status, the green led status, and the Wiegand data if it is detected.

The MA3000 accepts 12V DC power supply. There are two on board relays, two inputs, two LED indicators, one for power status and the other one for communication status between the host and the MA3000. Commands can be sent to the MA3000 through Ethernet interface to control on board relays and attached reader green LED and buzzer.

For ease of development, software API in .net framework 4.0 is provided for developers to develop application to control MA3000.



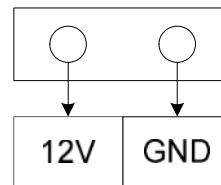
## 1. Connectors:

There are total 7 pluggable connectors and 1 RJ45 connector located on the MA3000 board serving different functions as described below.

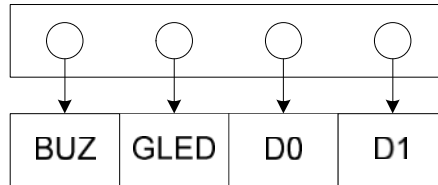
Connector Symbol	Description
J1	12V DC Power Supply
J2	Wiegand Reader Port
J3	Relay 1
J4	Relay 2
J5	Input 1
J6	Input 2
J7	Not used.
RJ45	Ethernet port

### 1.1 Connector J1

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



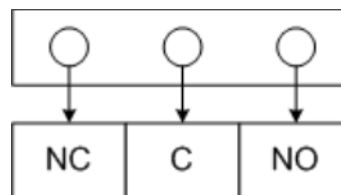
## 1.2 Connector J2



Connector J2 Port Assignment	
Designator	Description
D1	Wiegand Data 1
D0	Wiegand Data 0
GLED	To Reader G LED
BUZ	To Reader BUZ

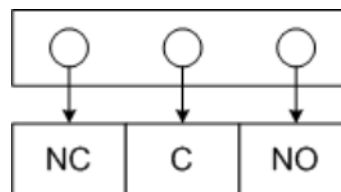
## 1.3 Connector J3

Connector J3 Port Assignment	
Designator	Description
NC	Normally Close
C	Common
NO	Normally Open



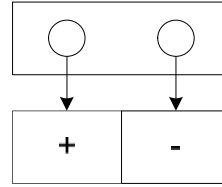
## 1.4 Connector J4

Connector J4 Port Assignment	
Designator	Description
NC	Normally Close
C	Common
NO	Normally Open



## 1.5 Connector J5

Connector J5 Port Assignment	
Designator	Description
+	Dry contact input
-	Dry contact input



## 1.6 Connector J6

Connector J6 Port Assignment	
Designator	Description
+	Dry contact input
-	Dry contact input

