

## Wiegand to Ethernet Converter

**MA6000** is a Wiegand to Ethernet converter. It operates in two directions: Wiegand to Ethernet conversion or Ethernet to Wiegand conversion. When it operates in Wiegand to Ethernet conversion, it accepts Wiegand data from 26-bit up to 66 bit. When Wiegand data is detected, it will automatically encapsulate the Wiegand data in UDP packet and send out the UDP packet to the remote host. If another MA6000 is configured as the remote host, the remote MA6000 will automatically extract the Wiegand data from the received UDP packet, and output the Wiegand data through a separated Wiegand port.

The MA6000 IP/UDP packet is configured to pass through a maximum of 5 routers.

The MA6000 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 MA6000. Commands can be sent to the MA6000 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 MA6000.

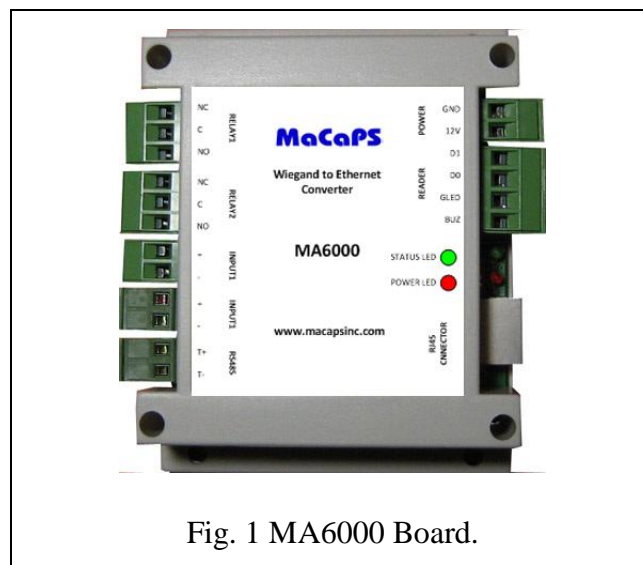


Fig. 1 MA6000 Board.

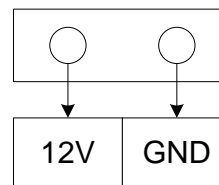
## 1. Connectors:

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

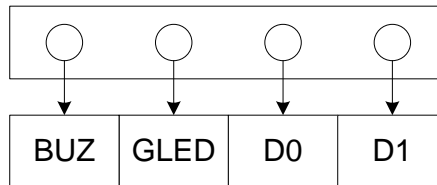
Connector Symbol	Description
J1	12V DC Power Supply
J2	Wiegand Reader Port
J3	Relay 1
J4	Relay 2
J5	Input 1
J6	Input 2
J7	Not used.
RJ45	Ethernet port

### 1.1 Connector J1

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



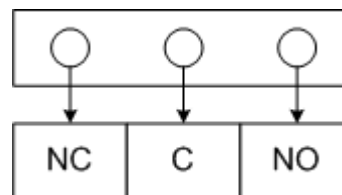
## 1.2 Connector J2



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

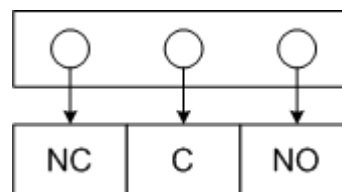
## 1.3 Connector J3

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



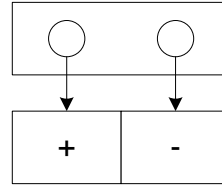
## 1.4 Connector J4

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

