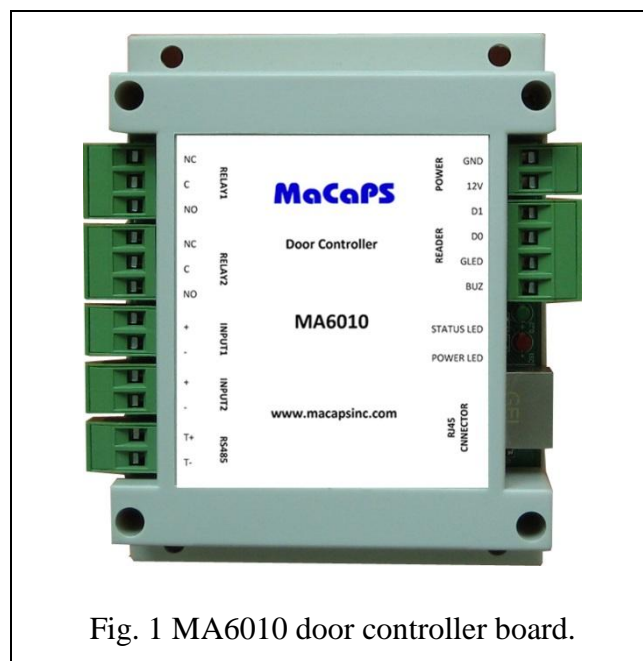


## Door Controller with Ethernet Interface

**MA6010** is a door controller with Ethernet interface. It accepts 12V DC power supply. There are two on board relays, one for door lock and the other one can be used for alarm; two inputs, one for door sensor and the other one for door release button; two LED indicators, one for power status and the other one for system status. The MA6010 has on board non-volatile memory for storing card data and real time events. The MA6010 also has a real time clock with backup battery. The MA6010 can operate stand-alone even when the host computer is disconnected. Events can be retrieved after the host computer is re-connected.

For ease of development, software API in .net framework 4.0 is provided for developers to develop their own application to control MA6010.



## Technical Specification

- Each MA6010 Door Controller can connect to one Wiegand Output Reader only.
- Supports 26 - 48 bit badge no
- Can store up to 45,000 cards
- Can store up to 180,000 events
- 256 door groups
- 256 time zones
- 36 holidays
- Real time clock
- Backup battery for maintaining data when power is disconnected
- On/Offline operation
- Two relays
- Two inputs
- Ethernet interface for host communication

*The backup battery will not be shipped with the board. Users have to purchase the backup battery and install it separately.*

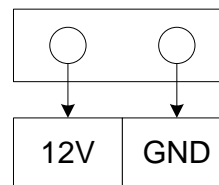
## 1. Connectors:

There are total 7 pluggable connectors and 1 RJ45 connector located on the MA6010 board serving different functions as described below.

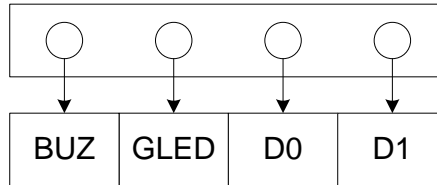
Connector Symbol	Description
J1	12V DC Power Supply
J2	Wiegand Reader Port
J3	Relay 1
J4	Relay 2
J5	Input 1
J6	Input 2
J7	RS485 (The RS485 port is reserved for debugging usage only.)
RJ45	Ethernet port

### 1.1 Connector J1

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



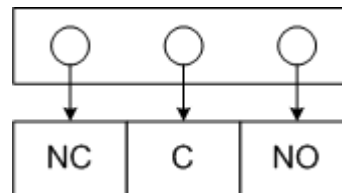
## 1.2 Connector J2



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

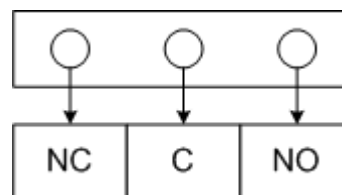
## 1.3 Connector J3

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



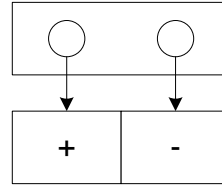
## 1.4 Connector J4

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

