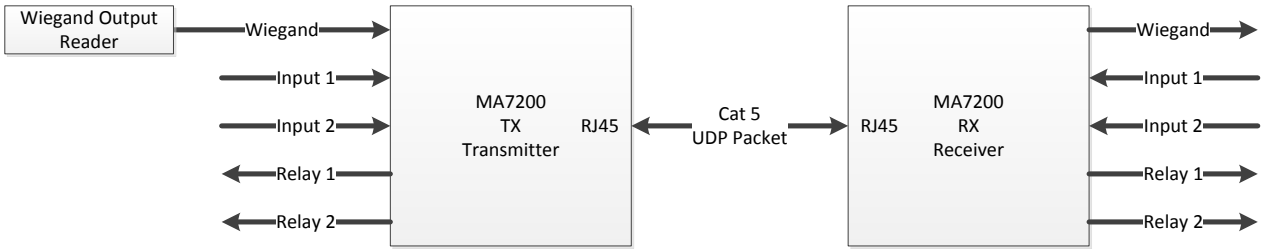
Ethernet to Wiegand Converter

MA7200 is an Ethernet to Wiegand converter. Badge no from 24-bit up to 64 bit can be encapsulated in UDP packets and sent to the remote MA7200 through Ethernet. On receiving the UDP packet, the remote MA7200 will automatically extract the badge no from the received UDP packet and convert to Wiegand bit streams.

The MA7200 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 MA7200. Commands can be sent to the MA7200 through Ethernet interface to control on board relays.

Sample Application



1. On the transmitter side, when Wiegand bits are detected, the Wiegand bits will be encoded in a UDP packet and send to the receiver. After receiving the UDP packet, the receiver will decode the Wiegand bits and output on the Wiegand port.
2. When state of transmitter's input 1 is changed, the state of input 1 will be encoded in a UDP packet and send to the receiver. After receiving the UDP packet, the receiver will decode the state of the transmitter's input 1 and change the state of receiver's relay 1.
3. In reverse direction, when state of receiver's input 1 is changed, the state of input 1 will be encoded in a UDP packet and send to the transmitter. After receiving the UDP packet, the transmitter will decode the state of receiver's input 1 and change the state of transmitter's relay 1.

MaCaPS

MaCaPS Inc.
PO Box 347,
Northboro, MA 01532
USA

Phone: (508)393-0573
Fax: (508)329-2015
Email: sales@macapsinc.com
http://www.macapsinc.com

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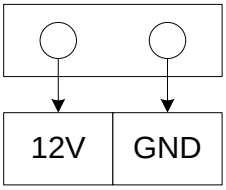
1. Connectors:

There are total 7 pluggable connectors and 1 RJ45 connector located on the MA7200 board serving different functions as described below.

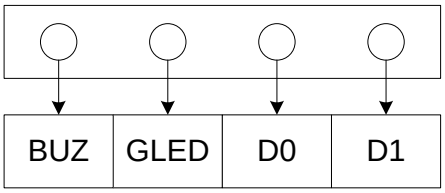
Connector Symbol	Description
J1	12V DC Power Supply
J2	Wiegand Reader Port
J3	Relay 1
J4	Relay 2
J5	Input 1
J6	Input 2
J7	Not used.
RJ45	Ethernet port

1.1 Connector J1

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



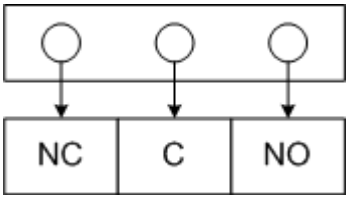
1.2 Connector J2



Connector J2 Port Assignment	
Designator	**Description**
D1	Wiegand Data 1
D0	Wiegand Data 0
GLED	To Reader G LED (Wiegand Data 1, output)
BUZ	To Reader BUZ (Wiegand Data 0, output)

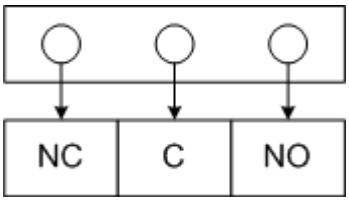
1.3 Connector J3

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



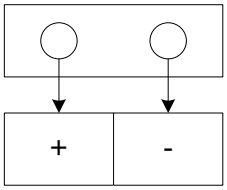
1.4 Connector J4

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