

# RS-485 Remote I/O Modules



**MDA-8508**

**8-Channel Isolated Digital Input Module & 8-Channel Isolated Digital Output Module**

## System Specification

<b>Communication</b>	
Interface	RS-485
Format	N, 8, 1
Baud Rate	9600 ~ 115200 bps
Protocol	Modbus RTU
<b>LED Indicator</b>	
Power Indicator	1
Communication Indicator	1
I/O Indicator	16
<b>Isolation</b>	
Voltage	3000V DC
<b>Power</b>	
Input Range	24V DC $\pm 10\%$
Consumption	Approx. 1W
Reverse Polarity Protection	Yes
<b>Environment</b>	
Operating Temperature	-25 ~ +75 °C
Storage Temperature	-40 ~ +85 °C
Humidity	10 ~95% RH, Non-condensing

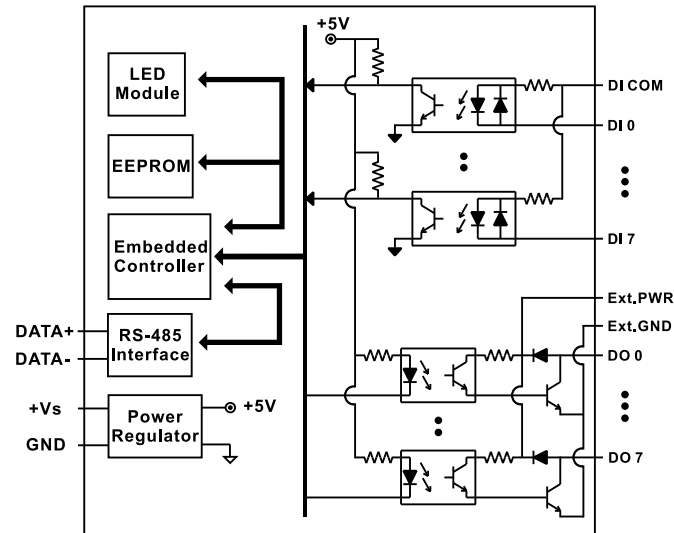
## I/O Specification

<b>Digital Input</b>		<b>Digital Output</b>	
Channels	8 (Sink / Source)	Channels	8 Sink
Input Type	Isolated with Common Power or Ground	Output Type	Open Collector (NPN)
Off Voltage Level	+1 V Max.	Load Voltage	+3.5V~ +50 V
On Voltage Level	+4 to +30 V	Max Load Current	100mA per channel
Input Impedance	3 K $\Omega$	Surge Protection	$\pm 3$ kV for Power Input

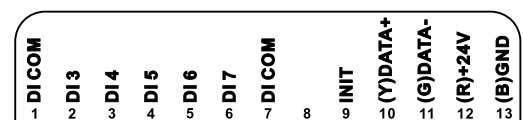
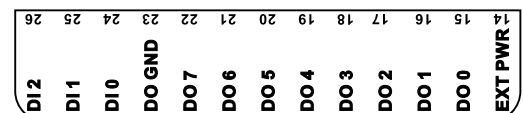
## Feature

- 8 Digital Input & 8 Digital Output
- On/Off Control Systems
- Industrial Automation
- Building Automation
- Semiconductor Fabrication

## Internal I/O Struction

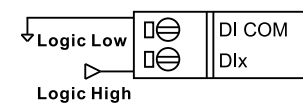
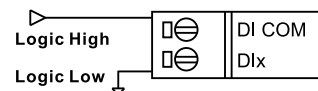
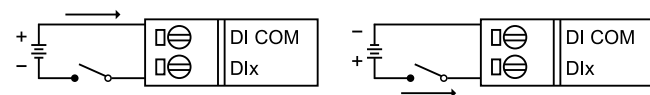


## Pin Assignments

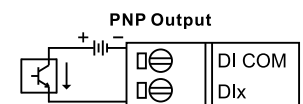
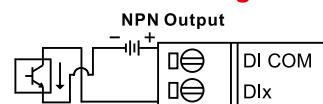


## Wire Connections

### Dry Contact Signal Input



### TTL/CMOS Signal Input



### Open Collector

