RS-485 Remote I/O Modules

MDA-8508
8-Channel Isolated Digital Input Module &
8-Channel Isolated Digital Output Module

System Specification

**Communication**
- Interface: RS-485
- Format: N, 8, 1
- Baud Rate: 9600 ~ 115200 bps
- Protocol: Modbus RTU

**LED Indicator**
- Power Indicator: 1
- Communication Indicator: 1
- I/O Indicator: 16

**Isolation**
- Voltage: 3000V DC

**Power**
- Input Range: 24V DC ±10%
- Consumption: Approx. 1W
- Reverse Polarity Protection: Yes

**Environment**
- Operating Temperature: -25 ~ +75°C
- Storage Temperature: -40 ~ +85°C
- Humidity: 10 ~ 95% RH, Non-condensing

**I/O Specification**

<table>
<thead>
<tr>
<th>Channel</th>
<th>Digital Input</th>
<th>Digital Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channels</td>
<td>8 (Sink / Source)</td>
<td>8 Sink</td>
</tr>
<tr>
<td>Input Type</td>
<td>Isolated with Common Power or Ground</td>
<td>Output Type</td>
</tr>
<tr>
<td>Off Voltage Level</td>
<td>+1 V Max.</td>
<td>Load Voltage</td>
</tr>
<tr>
<td>On Voltage Level</td>
<td>+4 to +30 V</td>
<td>Max Load Current</td>
</tr>
<tr>
<td>Input Impedance</td>
<td>3 KΩ</td>
<td>Surge Protection</td>
</tr>
</tbody>
</table>

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

**Internal I/O Structure**

**Pin Assignments**

**Wire Connections**

**Dry Contact Signal Input**

**TTL/CMOS Signal Input**

**Open Collector**