RS-485 Modbus RTU Interface to 16 Isolated Inputs / 16 Open-Collector Outputs

Part: 530M | **Model:** SeaI/O-530M

The SeaI/O-530M is an RS-485 Modbus RTU interface to 16 optically isolated inputs and 16 open-collector outputs. Inputs can range from 5-30VDC, while the open-collector outputs provide high current sinking over a large operating voltage. Each open-collector output circuit includes a flyback diode for protection when interfacing highly inductive loads, such as DC motors. Inputs are grouped into four-bit segments. Each group shares a common for easy wiring via removable 3.5mm terminal blocks. Outputs are grouped in eight-bit ports which share high and low voltage inputs.

The SeaI/O-530M is powered from your 9-30VDC source, or select from a variety of Sealevel power supply options.

Communicate with the SeaI/O-530M using the Sealevel SeaMAX API software libraries or use any Modbus RTU compliant device. Sealevel's SeaMAX software drivers and utilities make installation and operation easy using Microsoft Windows and Linux operating systems.

Expand your I/O network with SeaI/O N-series products. SeaI/O modules are available with Reed and Form C relays, optically isolated inputs, TTL interfaces, A/D and D/A functionality. Up to 246 additional expansion modules can be added using convenient pass-through connectors.

Get a jump start on your digital I/O development with The Digital I/O Handbook that will provide helpful information that you will use again and again. Check out Chapter 1 for an overview of logic principles.

Features & Specifications

RS-485 Modbus RTU Interface to 16 Isolated Inputs / 16 Open-Collector Outputs

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Features

- RS-485 Modbus RTU interface
- 16 optically isolated inputs
- 16 open collector outputs
- Removable screw terminals simplify field wiring
- Input power via terminal block or modular connector
- Optional DIN rail or table mount
- Sealevel SeaMAX software supports Microsoft Windows and Linux operating systems

Specifications

Family	SeaI/O
Digital I/O	Isolated Inputs, Open-Collector Outputs
Dimensions	7.5 (L) x 5.1 (W) x 1.3 (H)
Extended Temperature	Call for Options
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Input Isolation	2500VAC RMS, 3500VDC
Input Range	5-30 VDC
Input Impedance	6.2 K Ohms (in series)
Host Interface(s)	RS-485
Number of Inputs/ Outputs	16 Inputs / 16 Outputs
Operating Temperature	-25°C to 85°C (-13°F to 185°F)
Output Dissipation	Max. 1000mA (single), Max. 2000mA (port)
Output Isolation	2500VAC RMS, 3500VDC
Output Power	DC 60W max.
Output Type	Open-Collector
Output Voltage	Max. 60VDC
# of Ports	16/16
Power Requirement	9-30 VDC @ 1.4W
RoHS Compliant	Yes
Storage Temperature	-50°C to 105°C (-58°F to 221°F)