RS-232 Modbus RTU Interface to 96 Channel TTL Digital Interface

Part: 463S | **Model:** SeaI/O-463S

The SeaI/O-463S is an RS-232 Modbus RTU interface module providing 96 channels of buffered drive digital I/O. The interface module addresses the 96 channels of I/O as 12 eight-bit ports, each programmable as input or output. Using standard 50-pin IDC ribbon cables, connect up to four industry-standard relay racks for PC based control and automation of equipment including sensors, switches, security control systems, and other industrial automation systems. A metal strain relief bracket is included to secure the cables after installation. The SeaI/O-463S is powered from your 9-30VDC source, or select from a variety of Sealevel power supply options.

Communicate with the SeaI/O-463S using industry-standard Modbus RTU protocol or use the Sealevel SeaMAX API software libraries from your application program. 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.

To simplify ribbon cable installation, a printed copy of the Ribbon Cable Installation Instructions is included with all SeaI/O-463 orders.

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

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Features

- RS-232 Modbus RTU interface
- 96 channels of buffered TTL I/O
- Each 8-bit port individually configurable as input or output
- Four 50-pin industry-standard solid-state relay rack connectors
- Status indicator LEDs for Communication, Fault, and Power
- Input power via terminal block or modular connector
- DIN rail or table mount
- Sealevel SeaMAX software supports Microsoft Windows and Linux operating systems

Specifications

Family	Seal/O
Digital I/O	TTL I/O
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
Host Interface(s)	RS-232
Number of Inputs/ Outputs	96 TTL
Operating Temperature	0°C to 70°C (32°F to 158°F)
Output Power	+5V @ 1A (5W) max.
Output Specification	Sink up to 64mA, Source up to 32mA
# of Ports	96
Power Requirement	9-30 VDC @ 2.0W
Storage Temperature	-50°C to 105°C (-58°F to 221°F)