

# SeaI/O™

Data Acquisition Solutions



SEALEVEL®

# Modular.

Distributed  
I/O

## SeaI/O™

Sealevel's SeaI/O data acquisition modules provide powerful digital, analog, and serial expansion to any computer. Connect to the host via wireless, Ethernet, USB, RS-485, or RS-232 to add the functionality required for your particular application. Multiple units can be daisy chained using convenient pass-through connectors to create a versatile distributed control and monitoring network. For ease of installation, multiple modules can be combined in a local stack or separated up to 4000 feet using the RS-485 Modbus RTU expansion interface. SeaI/O modules offer:

- > **Powerful software configuration & diagnostic tools**
- > **Address selectable via software or switch**
- > **Easily daisy chain multiple units**
- > **Selectable RS-485 line conditioning**
- > **Flexible mounting options**
- > **Modbus TCP and Modbus RTU compatible**

Choose from a variety of I/O configurations, each designed for maximum flexibility and easy field wiring. For quick software implementation, application programs or third-party software can use Sealevel's SeaMAX libraries or industry-standard Modbus protocol.



Control I/O remotely using an 802.11b/g connection. Suitable for a wide range of applications and environments, Sealevel's robust wireless interface provides easy installation and reliable communication.

Wireless

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sales@sealevel.com

# Rugged.



SeaI/O Ethernet modules are compatible with 10/100BaseT Ethernet and allow remote monitoring and control of I/O from anywhere on your network. Use Sealevel's SeaMAX software or industry standard Modbus TCP for easy software installation.

Ethernet



SeaI/O USB modules allow any USB port to interface your I/O. Sealevel's innovative locking USB connector and cable design guarantees trouble-free connectivity even in high-vibration or industrial environments.

USB



Targeted for traditional plant floor automation applications, SeaI/O RS-485 modules interface are compatible with industry standard Modbus RTU protocol. This compatibility allows SeaI/O implementation in legacy Modbus RTU networks and operation with a wide variety of PLCs and other controllers.

RS-485



Turn any computer into a powerful data acquisition system with SeaI/O RS-232 modules. SeaI/O expands traditional RS-232 point to point communications to allow control of up to 247 modules from a single serial port.

RS-232

# SEALEVEL

Choose from a wide range of digital, analog, and serial functionality perfect for a variety of applications including process control, broadcast automation, security, and facility management. Choose your host connection, then add SeaI/O Expansion modules as needed. The SeaI/O architecture allows daisy chaining up to 247 SeaI/O devices to create a control network optimized for your requirements.



Ethernet Interface Shown

### SeaI/O-410 Series

- > 16 nonpolarized optically isolated inputs
- > 30VDC max. input
- > 300V isolation
- > 6.2K ohms series input resistance
- > 16 SPST Form A Reed relays
- > 60VDC @ 500mA max. contact rating



USB Interface Shown

### SeaI/O-420 Series

- > 16 nonpolarized optically isolated inputs
- > 30VDC max. input
- > 300V isolation
- > 6.2K ohms series input resistance
- > 8 SPDT Form C relays
- > 60VDC @ 2A max. contact rating



Ethernet Interface Shown

### SeaI/O-430 Series

- > 32 nonpolarized optically isolated inputs
- > 30VDC max. input
- > 300V isolation
- > 6.2K ohms series input resistance



RS-485 Interface Shown

### SeaI/O-440 Series

- > 32 SPST Form A Reed relays
- > 10VA max. power
- > 60VDC max. contact voltage
- > 500mA max. contact current



Wireless Interface Shown

### SeaI/O-450 Series

- > 16 SPDT Form C relays
- > 60VDC max. contact voltage
- > 2A max. contact current
- > Normally-open and normally-closed contacts on connector



Expansion Interface Shown

### SeaI/O-462/463 Series

- > 96 bits of buffered TTL I/O
- > Programmable as input or output in 8-bit groups
- > 462 Series - Two DB-78 connectors
- > 463 Series - Standard 50-pin ribbon cables



RS-232 Interface Shown

### SeaI/O-470 Series

- > 8 differential or 16 single-ended 12-bit A/D inputs
- > Inputs configurable for 4-20mA inputs
- > 2 12-bit D/A outputs
- > 8 optically isolated inputs
- > 8 open-collector 24V outputs



Ethernet Interface Shown

### SeaI/O-520 Series

- > 8 nonpolarized optically isolated inputs
- > 30VDC max. input
- > 8 high-current Form C relays
- > 240VAC/125VDC max. contact rating
- > 7A max. contact current



### SeaI/O-641/647U

- > 641 Series - 4 USB to RS-232 ports
- > 647 Series - 4 USB to RS-232/485 VersaCom ports
- > No power supply required
- > Options allow powering peripherals over serial
- > Optional RJ45 to DB9 adapters



### SeaI/O-681/687U

- > 681 Series - 8 USB to RS-232 ports
- > 687 Series - 8 USB to RS-232/485 VersaCom ports
- > No power supply required
- > Options allow powering peripherals over serial
- > Optional RJ45 to DB9 adapters



### SeaI/O-270U

- > 7 Port isolated USB Hub
- > 1200VAC isolation
- > Protects host from damage in harsh industrial environments
- > Exclusive locking USB Type A and B connectors



# All the I/O You Need. Connected However You Like.

## All SeaI/O Devices Offer:

### Choice of Connectivity

- > 802.11b/g
- > Ethernet
- > USB
- > RS-232
- > RS-485

### Choice of I/O

- > Reed and Form C Relays
- > Optically Isolated Inputs
- > TTL Interface to Industry Standard Solid-State Relay Racks
- > A/D and D/A Functionality

Supports Industry Standard Modbus Protocol

Status Indicator LEDs for Communication, Fault, and Power

Field Removable Terminal Block Connectors

9-30VDC Power Input

Daisy Chain up to 247 Modules

Extended Temperature Available (-40°C to +85°C)

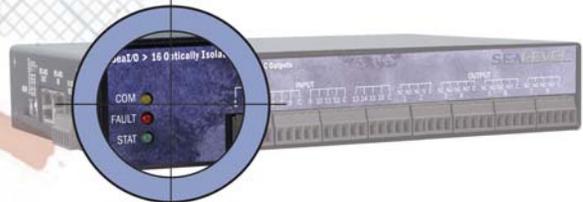
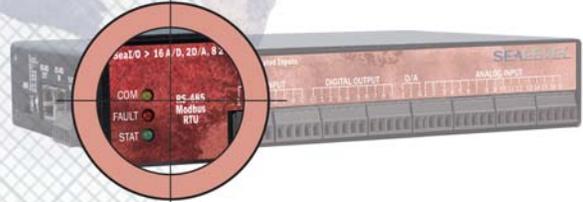
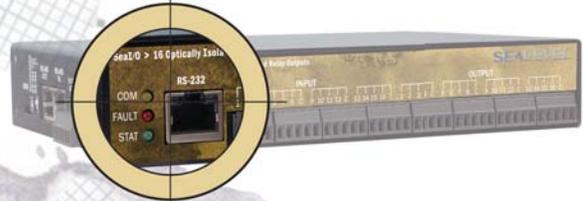
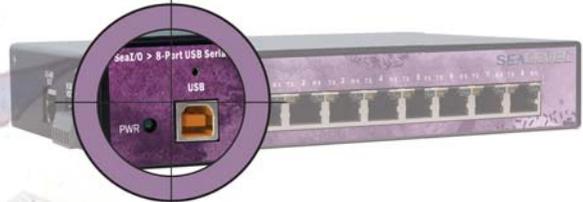
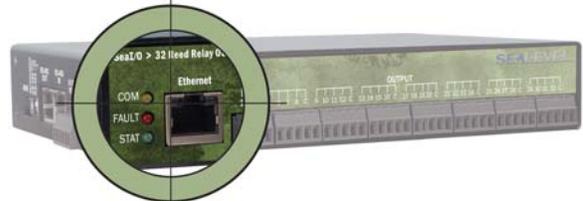
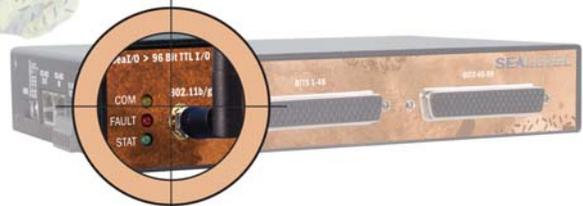
Rugged Metal Enclosure

Compact Size - 7.5" (L) x 5.1" (W) x 1.3" (H)

Din Rail or Table Mount

Lifetime Warranty

**Modular.  
Rugged.  
Expandable.**



**SeaI/O**  
Data Acquisition Solution.



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# SEALEVEL®

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