

Automation &
Control



High Speed Serial I/O & DAQ Systems

SEALEVEL[®]
Delivering Design & Manufacturing Excellence Since 1986

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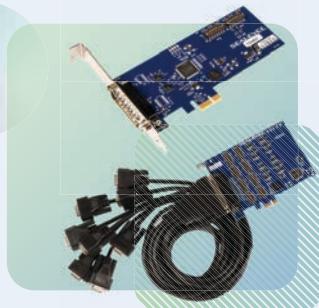


EMBEDDED SYSTEMS
SOLUTIONS

Asynchronous Serial I/O for Industrial Integration & Legacy Connectivity

Sealevel offers the widest selection of asynchronous and synchronous serial solutions for data intensive applications. Sealevel Serial Adapters are trusted for factory and process automation, smart manufacturing, industrial, and commercial applications where reliable, high-speed communications are required.

PCIe Asynchronous Serial Adapters



- ✓ 120-byte FIFOs ensure reliable high-speed serial communication.
- ✓ Supports RS-232, RS-422, RS-485 interfaces.
- ✓ Fully compatible with PCI Express X1, X2, X4, X8, X16, X32 slots.
- ✓ Backward compatible with PCI software for easy migration.
- ✓ Ideal for data-intensive applications in automation and control.

PCI Asynchronous Serial Adapters

- ✓ Extensive RS-232, RS-422, RS-485 serial card options.
- ✓ Universal Bus support (3.3V/5V); low-profile format options.
- ✓ Includes installation accessories and software tools.
- ✓ Designed for modern PCs with limited PCI slot form factors.



Applications:

- Seamless integration of legacy RS-232/422/485 devices in factory automation.
- Connects to PLCs, barcode scanners, sensors, HMIs, and test equipment.
- Enables serial data logging, process control, and real-time device monitoring.

Synchronous Serial I/O for Time-Critical Automation

PCIe Synchronous Serial Adapters



- ✓ PCI Express X1 cards support high-speed synchronous communication.
- ✓ Compatible with HDLC/SDLC protocols and legacy PCI drivers.
- ✓ Ideal for DDS, automation, process control, military, and banking.
- ✓ Available in multi-interface RS-232/422/485 configurations.
- ✓ Supports intelligent & flexible manufacturing applications.

PCI Synchronous Serial Adapters

- ✓ Built for high-speed data transfer in industrial & embedded systems.
- ✓ Engineered with precise timing for reliable synchronous communication.
- ✓ Supports HDLC/SDLC and other industry protocols.
- ✓ Available in RS-232/422/485 multi-interface cards.
- ✓ Common in robotics, vision systems, and factory automation.



Applications:

- Enables legacy-to-modern system integration.
- Supports long-term availability and harsh factory conditions.
- Engineered for time-critical, clocked communication in automation systems.

Empowering I/O Connectivity

Seal/O Data Acquisition Devices

Sealevel's Seal/O data acquisition modules deliver monitoring and control for applications including automation, broadcast, security, facility management and test systems.

Connect to the host via wireless, Ethernet, USB, RS-485, or RS-232 to add the functionality required for your system. Multiple units can be daisy chained using convenient pass-through connectors to create a versatile, distributed network.

- ✓ Powerful software configuration & diagnostic tools
- ✓ Address selectable via software or switch
- ✓ Selectable RS-485 line conditioning
- ✓ Modbus TCP and Modbus RTU compatible
- ✓ Extended temperature options available
- ✓ Easily daisy chain multiple units
- ✓ Flexible mounting options
- ✓ Lifetime warranty



Ethernet-Based DAQ I/O for Remote Monitoring & Industrial Test Systems

The **Seal/O-470E** delivers high-precision analog and digital I/O, tailored for sensor validation, process monitoring, and automated test environments in industrial and manufacturing automation.



Multifunction Ethernet I/O Module

Key Features:

- ✓ 16 12-bit single-ended or (8) differential analog inputs
- ✓ 2 12-bit analog outputs (0–5V / 0–10V jumper selectable)
- ✓ 8 Optically isolated digital inputs (5–30VDC, 300V isolation)
- ✓ 8 Open-collector digital outputs (sink up to 580 mA)
- ✓ Supports Modbus TCP protocol for seamless SCADA/PLC integration
- ✓ Wide 9–30VDC input, DIN-rail mountable, removable screw terminals
- ✓ Software support for Windows/ Linux via SeaMAX & Modbus API

Applications:

- ✓ Industrial sensor testing & calibration stations
- ✓ Process automation control with analog/digital I/O.
- ✓ Factory line test benches for gas detection, safety & HVAC devices
- ✓ Distributed monitoring in smart manufacturing & facility automation
- ✓ Ideal for harsh environments requiring rugged, isolated signal interfacing

Serial Adapters For Industrial Control

USB to Serial Adapters



- ✓ Seamless RS-232/422/485 device integration via USB
- ✓ Plug-and-play support for lab and diagnostic environments
- ✓ High-retention connectors for vibration resistance
- ✓ Ideal for portable testing setups and PC-based systems

Ethernet & PoE Adapters

- ✓ Power-over-Ethernet (PoE) enables single-cable power and data transmission
- ✓ Remotely monitor and control digital/analog I/O across Ethernet networks
- ✓ Supports opto-isolated inputs, Reed/Form C/solid-state relay outputs, A/D inputs
- ✓ Seamlessly integrates into 10/100 Base-T infrastructure for wide compatibility
- ✓ Rugged, DIN-rail mountable design for reliable deployment in harsh conditions



Reliable Serial Expansion for Testing & Industrial Automation

SeaLINK® 4803: 8-Port Ethernet to RS-232/422/485 Serial Server

Designed to deliver dependable serial expansion over Ethernet, the SeaLINK 4803 allows seamless integration of RS-232, RS-422, or RS-485 devices in cleanroom environments or test labs. Trusted in pharmaceutical stability and sterility testing systems, it ensures real-time monitoring and environmental compliance.



Key Features:

- ✓ 8 individually configurable serial ports (RS-232/422/485)
- ✓ 10/100Base-T Ethernet interface with auto-sensing
- ✓ Data rates up to 230.4Kbps per port
- ✓ Transparent virtual COM port support (via SeaLINK software)
- ✓ Supports RFC 2217, raw socket mode, and serial tunneling
- ✓ Rugged design for 0°C to 70°C operation range

Applications:

- ✓ Pharmaceutical test chamber control & expansion
- ✓ Industrial sensor networks over Ethernet
- ✓ Legacy equipment integration in modern SCADA systems
- ✓ Remote device control in cleanroom and controlled environments

Sealevel Serial, I/O & DAQ Solutions

Built for Harsh Environments, Factory Control & Industrial Intelligence

PCIe/PCI Solutions



Synchronous PCI Adapter



PCI 2-Port Async Serial Adapter



8-Port Async PCIe Serial Adapter



Synchronous PCIe Adapter

DAQ & I/O



RS-232 DAQ



RS-485 DAQ



USB DAQ



Ethernet DAQ

Serial Converters



USB Serial Adapter



Ethernet to Serial Adapter



Ethernet TTL I/O Module

Fanless Embedded Computers



Relio R1 Rugged



Flexio Industrial

