

S3 Communication Processor

A New Paradigm for Integrating Industrial Data Across Multiple Channels.

The Liaison S3 is a tool that represents the embodiment of many years of on-site experience commissioning communication links. Beyond the traditional technical functions of a gateway, Liaison communication processors incorporate dozens of features designed to speed commissioning, overcome last-minute problems, facilitate validation and enable long-term technical support.

At its core, it manages multi-channel communication between Ethernet, serial, fieldbus, and proprietary protocols, seamlessly integrating data from two, three or many more communication ports using any number of protocol combinations.

It supports several levels of channel redundancy including hot-swapping between a primary and secondary Liaison S3

User-defined scriptable functions provide real-time conversion of data-type, scaling and non-standard formats like packed, split and status integers. No need to open up previously validated processors to accommodate additional code designed to "massage" incoming data.

Secure dial-in and telnet support allow remote monitoring, diagnosis and configuration for last-minute changes and troubleshooting.

The Liaison S3 isn't just designed to get the job done, its designed to get the job done quickly and efficiently.

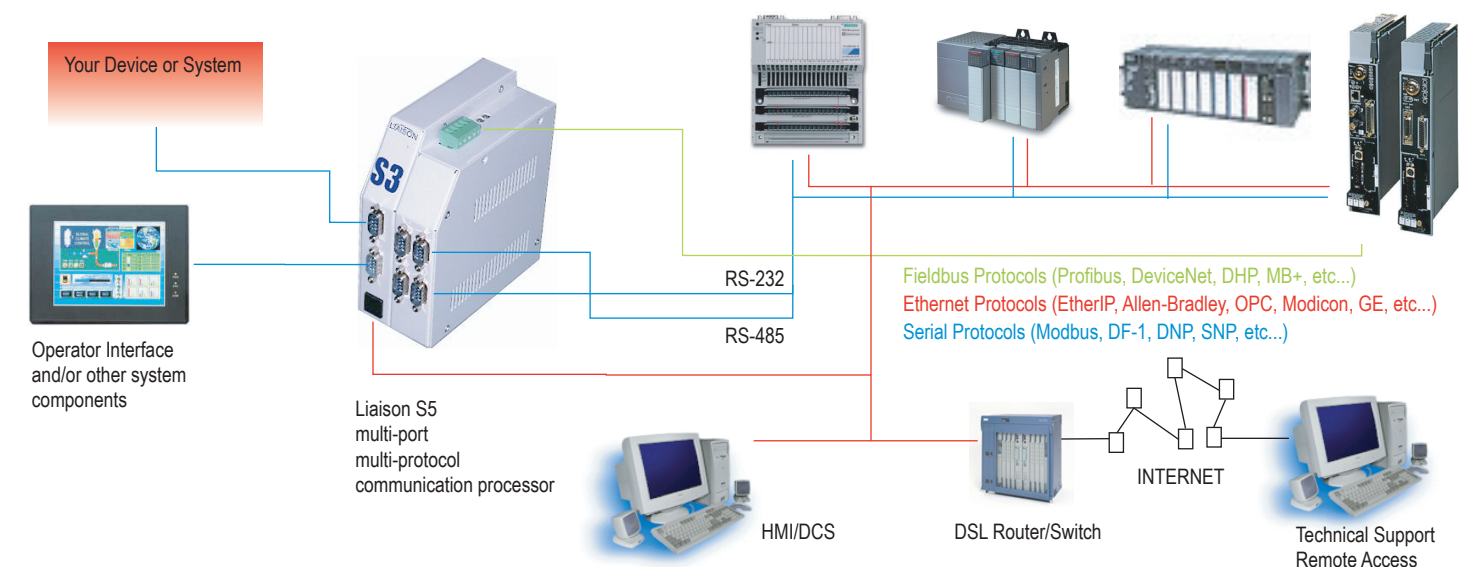
Features



- ★ Available in a variety of hardware configurations from an Ethernet port and two RS-232 serial ports up to ten serial ports (RS-232 or RS-485). May include a selection of fieldbus interfaces (AB DH+, DeviceNet, Profibus DP, etc...) as well as a dial-in modem.
- ★ Multi-channel protocol and media support. Supports a mixed environment of different protocols and different media (serial, Ethernet, fieldbus, etc...) using multiple modules

- ★ Multi-level recoverability from communication errors (watchdogging) by channel.
- ★ Extensive logging, including error, trace, system, and authorization logs
- ★ Scripting provides complete control over data flow, type conversion, scaling, etc... Extensive support for remote and secure monitoring, diagnostics and administration using encrypted internet protocols and access permissions, FTP, SSH, Telnet, HTTPS, etc...
- ★ Windows Explorer drag & drop file exchange, web-browser monitoring & diagnostics, spreadsheet (MS Excel) configuration (no custom software required)

Functionality & Topologies

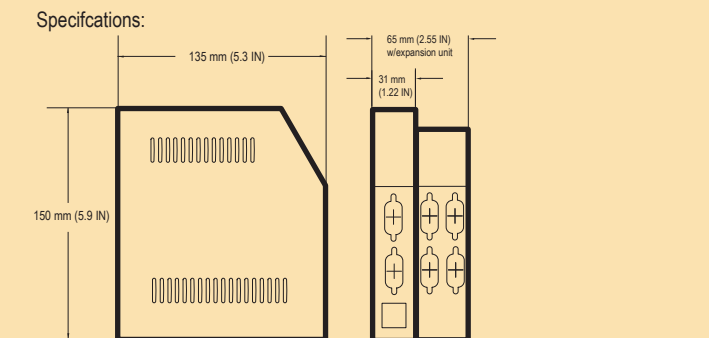


Applications	Description
Protocol Conversion	Supports simultaneous multiple protocol conversions
Data Concentration	Increase data throughput through concurrent communication from multiple subnets and trunk LAN collection
Data Multiplexing	Allocate data from a single message to multiple destinations on a variety of subnets (combine with protocol conv.)
Data Type Conversion	Rescale data for any destination. Convert between integer and discrete signals. Convert between Float and Int.
Communication Behavior	Produce conditional behavior to trigger writes, reads and produce alarm/status data from a threshold or combination of threshold values. Virtually limitless possibilities with intuitive scripting language
Firewall	Access is limited to "mapped" points. Only explicitly authorized data can be sent or received through an S3
Router/Passthrough Function	Allows messages from related protocols to "passthrough", i.e. Modbus RTU, Modbus Plus, Modicon TCP/IP
Remote Access	Monitor, Diagnose and Configure using remote access over Internet or with optional dial-in modem
Communication Link Security	Control access through encryption, username/password, permissions and other inherent S3 functions



Configuration, File Transfer, Monitoring and Diagnostics use standard MS Windows applications like MS Excel, Wordpad, Windows Explorer and Internet Explorer. No special configuration software is required.

For additional specific information, examples and demonstrations, please visit our website at <http://www.liaisontech.com>



Shipping Weight 3.0 lb (1.36 Kg)

- Input Voltage 18-36V DC
- 44V DC sustained max, 50V DC transitory max (100 ms), 17V startup threshold
- Brief protection against inverse polarity, thermal shutdown protection
- Over-voltage and short circuit shutdown protection (indefinite period)
- Fully isolated to 1500V DC
- Input fusing - 2 A slow-blow fuse
- Operating temperature : 0 ~ 55°C
- Storage temperature : 0 ~ 70°C.
- Humidity : 5 to 95% non-condensing
- Vibration (operating): 5 to 17 Hz, 0.1" double-amplitude displacement; 17 to 500 Hz, 1.5 G ACceleration peak to peak
- Shock (operating): 10 G acceleration peak (11 ms duration)
- EMI: meets FCC/DE Class A

