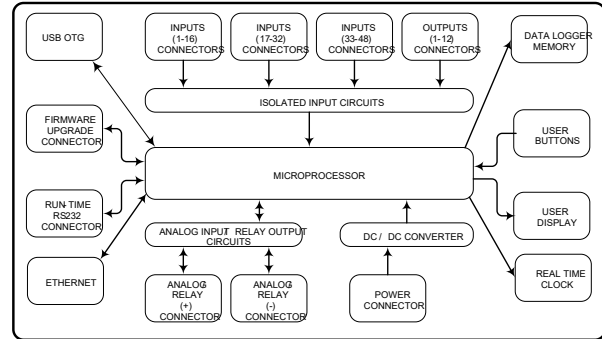
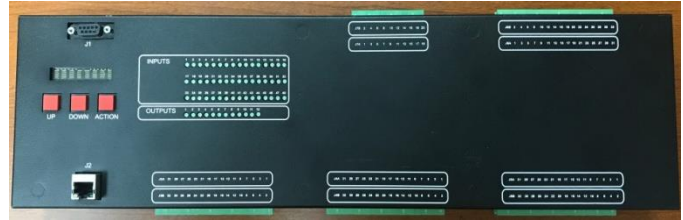


FEATURES

- **48 Digital Inputs**
 - Optical Isolation
 - Differential Input Connection
 - Wide On-Voltage Range
- **8 Analog Inputs**
 - Optical Isolation
 - Differential Input Connection
- **12 Relay Outputs**
 - Normally Open Contacts
- **User Interface**
 - User Input Buttons
 - Digital Information Display
- **Computer Interface**
 - RS232 Serial
 - Ethernet
 - USB OTG for downloading of log files
 - Extensible Communication Protocol
- **Data Storage Capability**
 - Up to 64GB (via internal MicroSD card)
 - Built-in Real-Time Clock for time stamping
- **Extended Temperature Range (-30C to +70C)**



DATA LOGGER CAPACITY

The internal storage medium used by the Data Logger is MicroSD card based. Cards up to 64GB are available (at the time of this writing), but frequency of data changes and length of I/O channel and state descriptions can vary.

In a conservative estimation using the worst-case log entry length of 100 characters, and an event frequency of 1 event per second, we can calculate that data would be logged at a 360kB / hour (8.64MB / day) rate. This means that a 4GB MicroSD card could contain 462 days of data at this rate, while a 64GB card could contain 7392 days of data. Even at higher event rates, it is clear that readily-available MicroSD card capacities will permit years of event recording without reaching storage capacity. The SiLoggerXL can, if desired, be configured to automatically delete log files of a certain age to prevent the file system from being overrun with old log files.

ELECTRICAL SPECIFICATIONS

Input Voltage	9-36V _{DC}
Maximum Power Consumption	18W@12 V _{DC}
Operating Temperature Range	-30°C to+70°C
Digital Input Isolation	3000V _{RMS}
Min Digital Input ON Voltage	+9V _{DC}
Max Digital Input ON Voltage	+36V _{DC}
Min Digital Input OFF Voltage	-20V _{DC}
Max Digital Input OFF Voltage	+2.5V _{DC}
Analog Input Isolation	3000V _{RMS}
Min Analog Input Voltage	0V _{DC}
Max Analog Input Voltage	36V _{DC}
Relay Output Isolation	3000V _{RMS}
Memory Size	Based on installed MicroSD card size

DESCRIPTION

The SiLoggerXL rugged Data Logger module reads electrically isolated digital and analog inputs. Closed contact relay outputs are provided for maximum output flexibility. The SiLoggerXL shares the states of these I/O points with a user's device using RS232 serial or Ethernet communications. The Trilogy communication protocol is open to extension to allow the user maximum interface flexibility, and can be customized to log data via communication interface as well as via hard-wired inputs.

The SiLoggerXL contains a computerized display used to show status of I/O points, communication settings, and other important system info. User buttons are provided to allow the user to scroll through the various pieces of information that can be displayed.

Log files can be retrieved from the SiLoggerXL via Ethernet interface using FTP, USB OTG using a PC, or by physically removing the internal MicroSD card and reading it in a card reader device.

MECHANICAL SPECIFICATIONS

Height	5.25in
Width	19in
Depth	3in
Max Connector Wire Gauge	#16 AWG

PHYSICAL LAYOUT

