

## **FEATURES**

- **Small Form Factor/DIN Rail Mount**
- **1.45" 160x128 OLED Display with 6-button user interface**
- **Connectivity:**
  - **2x Serial Ports – Configurable RS232/422/485**
  - **2x 10/100 Ethernet Ports (fully independent networks)**
  - **High Speed USB port**
  - **Communication Expansion Port**
- **Supports Industry-Standard Communication Protocols and Logging, including Genisys, DataTrain VIII, Microlok Peer, Modbus, and Electrologixs/VHLC**
- **Internal storage for configuration and operating system**
- **Removable, externally-accessible MicroSD card for additional storage**
- **Real-Time Clock for Date/Time Stamping**
  - **Time Synchronization using NTP**
- **Connect up to 16 I/O modules from a variety of available types**
- **Meets AREMA 11.5.1 for Class C Equipment**

## **OVERVIEW**

The Trilogy Products SiCLP is a small form factor modular logic processor and data logger that supports multiple industry-standard communication protocols and provides the ability to execute application logic, and even custom applications. The SiCLP has been developed specifically for the transit/rail industry but is suitable for other industrial/commercial applications where event recording, communication gateway, or application logic functionality is needed. The unit features two configurable serial ports, two independent Ethernet ports, two USB host ports, and an external SD card slot for additional data storage capability. Additionally the unit features a built-in user interface via the OLED display and buttons on its face, and also features other configuration and monitoring options via FTP, telnet, and HTTP. The SiCLP does not include any digital or analog I/O itself, but it is expandable using I/O modules to handle digital I/O, analog I/O, and other functions such as TWC. Connected modules are automatically detected and made available for use in the application logic. The SiCLP firmware is field upgradable by a simple procedure using USB or Ethernet.

## **STORAGE CAPACITY**

The internal storage capacity (at the time of this writing) of the SiCLP is 16GB. Additional storage can be added in the form of an external SDHC/SDXC card via the external MicroSD card slot.

## **DATA LOGGING**

Automatic logging facilities are provided which log startup/shutdown, communication status, data changes, faults, and more. Old log files can be set to automatically delete after a specific amount of time, ensuring that the MicroSD card will not fill up completely and be unable to log new data.



## **APPLICATIONS**

The SiCLP can be used strictly as a data logger, as a gateway device to translate between protocols, or as an I/O endpoint. In addition, the logic processor built into the SiCLP allows the unit to process non-vital logic expressions and functions, much like a PLC. Finally, the SiCLP also supports fully custom applications that have been targeted to the device's Linux-based operating system.

**See document D1000128 & D1000129 for available I/O module options.**

## **MECHANICAL SPECIFICATIONS**

Dimensions \_\_\_\_\_ 4.75in D x 4.91in H x 2in W  
 Operating Temperature Range \_\_\_\_\_ -40 °C to +70 °C

## **ELECTRICAL SPECIFICATIONS**

Input Voltage \_\_\_\_\_ 9-36V<sub>DC</sub>  
 Maximum Power Consumption \_\_\_\_\_ 12.5W @ 9VDCin  
 Maximum Input Current  
 (feed-through to connected I/O modules) \_\_\_\_\_ 10A  
 Primary to I/O Ports Isolation \_\_\_\_\_ 2000V<sub>RMS</sub>/1 min.  
 Max Power Connector Wire Gauge \_\_\_\_\_ #12 AWG  
 USB Connector \_\_\_\_\_ 1xUSB-A  
 Ethernet Connector \_\_\_\_\_ 2xRJ45  
 Serial Connector \_\_\_\_\_ 2x TE Connectivity 2842528-5  
 Power Connector \_\_\_\_\_ Phoenix Contact 1873058



Trilogy Products

**SiCLP**

**Compact Data Logger and Logic Processor**

**ORDERING INFORMATION**

Model Number	Description
SiCLP	Compact Data Logger & Logic Processor

**PHYSICAL LAYOUT**

