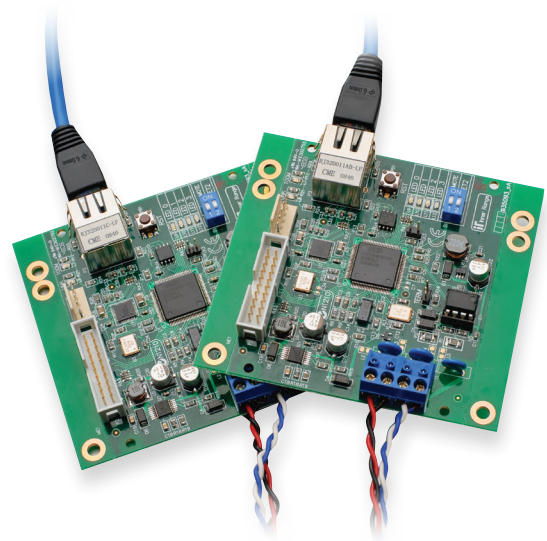# LAN Over Ethernet Module (CLOE)

The LAN over Ethernet Interface (CLOE) provides a convenient interface for the Integriti or Concept RS-485 LAN to be distributed over standard TCP/IP Ethernet networks.

Ethernet connectivity allows the RS-485 LAN to operate over an IP network architecture including 802.3i (10baseT) and 802.3U (100baseT) switching and routing equipment. Wireless communications can also be achieved using a wireless router and Ethernet / 802.11 point to point RF solutions.

CLOE provides the full flexibility of Ethernet networks while maintaining the high security and scale of the standard RS-485 LAN architecture.

The CLOE system supports the TCP/IP protocol with all data encrypted using 128 bit AES encryption. Security is monitored in all RS-485 segments of the LAN providing alarms for network outages or module substitution conditions.
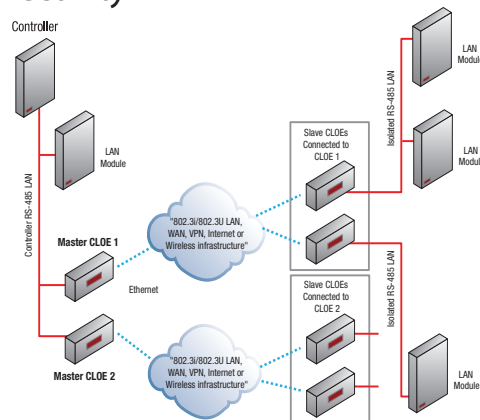
Every CLOE module can be assigned as a master or a slave via initial setup options and the master unit is configured with a static IP address while the slave units support static or dynamic addressing. The use of Ethernet networks also provides the added benefit of electrical isolation between RS-485 LAN segments.

Features

- Compatible with Integriti, Inception or Concept 4000 RS-485 LAN
- Transmit the RS-485 LAN over Ethernet Networks
- Convert Standard RS-485 LAN Modules into Ethernet LAN Modules
- Serial communication speeds of up to 19200 baud
- Extend the Integriti, Inception or Concept 4000 LAN distance
- Use wireless IP technologies to save wiring costs
- Use existing IP Networks to save wiring time & costs
- Deploy single Control Modules across multiple sites
- Provide electrical isolation between RS-485 LAN segments
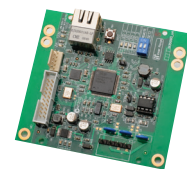- AES 128 bit encryption

Connectivity

Specifications

Physical

PCB Dimensions:	95(L) x 95(W) (mm)
Installation Environment:	0°C-50°C @ 15% to 85% Relative humidity (non condensing)

Electrical

Input Voltage to PCB:	(11-14VDC)
Operational Current:	Typical : ~65 mA Max: 110mA
Ethernet LAN:	10baseT / 100baseT (802.3i / 802.3U)
Ethernet Connector:	RJ45

Ordering Options

995093
LAN Over Ethernet Module