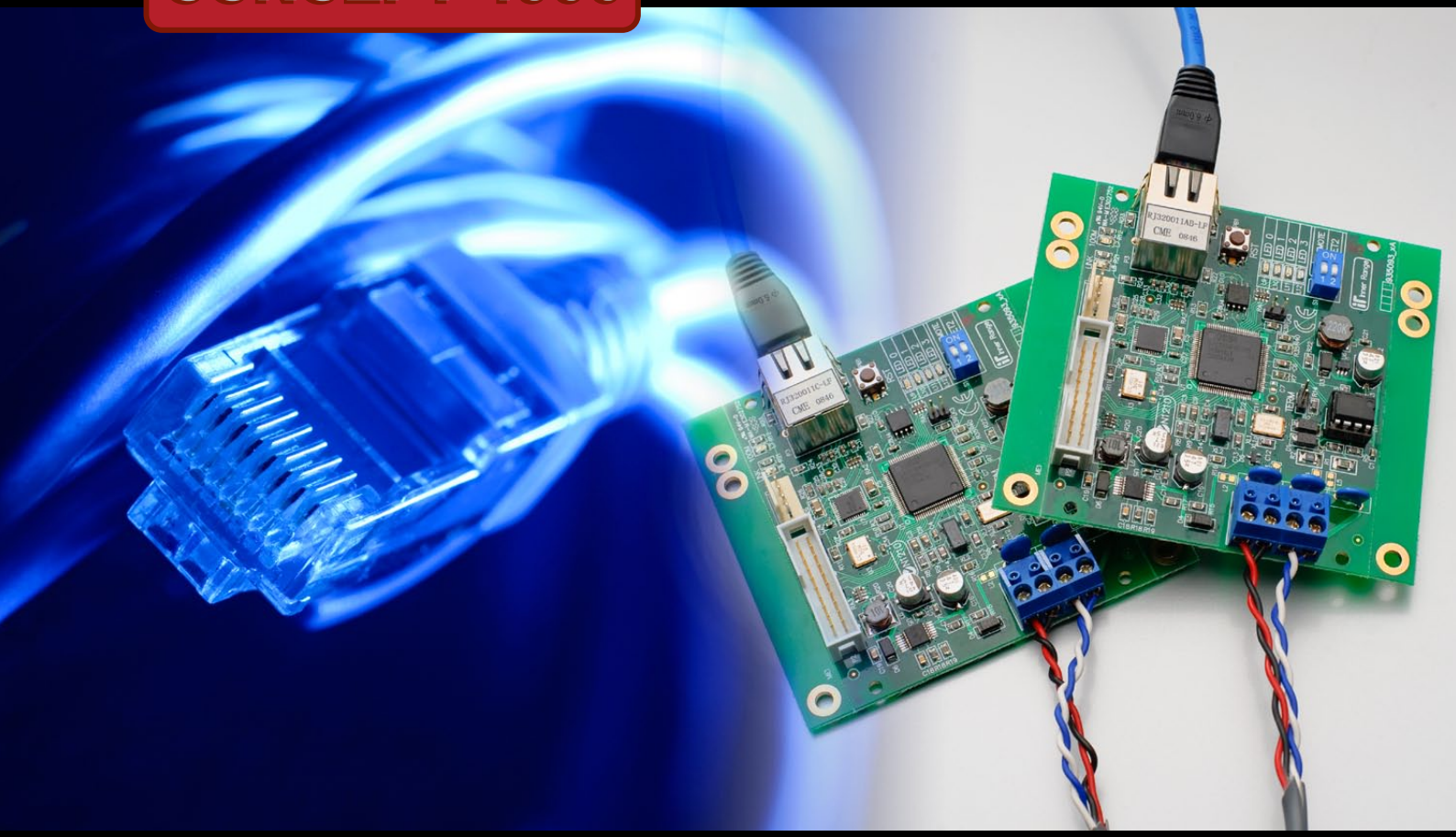
An Ethernet LAN Interface for CONCEPT 4000 systems



The Concept 4000 LAN Over Ethernet Interface provides complete IP connectivity across all Concept 4000 modules

- Transmit a traditional Concept 4000 RS485 LAN over a standard Ethernet or IP Network
- Link multiple Concept 4000 LAN segments via IP to extend LAN distance or utilize existing IP infrastructure
- Convert traditional Concept Modules (Door Controllers, Expander Modules etc). into IP based modules.
- Extend Concept 4000 LAN distance
- Utilise existing IP networks (LAN, WAN, Internet)
- Use wireless IP technologies to save wiring costs
- Deploy single panels across multiple sites
- Compatible with standard IP based networks and technologies. LANs, WANs, Internet, Wireless IP (802.11x, GPRS, 3G)

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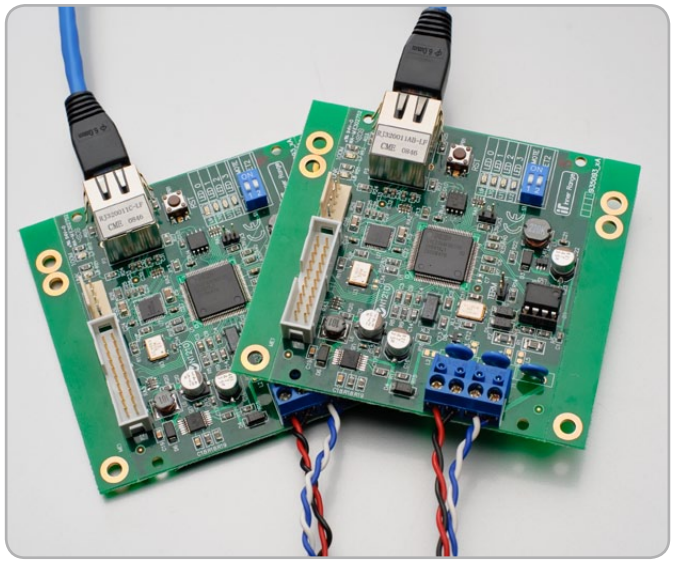
Intelligent Security Solutions

CONCEPT 4000

The Concept 4000 LAN Over Ethernet Interface

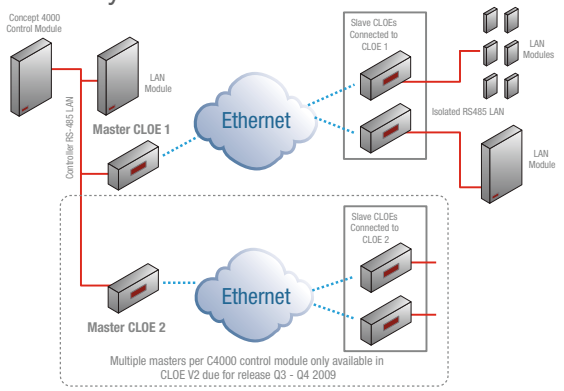
The Concept LAN over Ethernet Interface (CLOE) provides a convenient interface for the Concept RS485 LAN to be distributed over standard TCP/IP Ethernet networks. Ethernet connectivity allows the Concept LAN to traverse over IP network architecture including 802.3i (10baseT) and 802.3U (100baseT) switching and routing equipment. Wireless communications can also be achieved via wireless router and Ethernet / 802.11 point to point RF solutions. Every Concept LAN over Ethernet Interface can be assigned as a master or a slave during initial set-up, the master is configured with a static IP address while the slave units support static or dynamic addressing. Multiple master and slaves can exist within the same network and multiple Concept RS485 LAN modules can be connected to each slave. The CLOE system uses TCP/IP protocol with all data encrypted with 128 bit AES encryption and security is maintained in all RS485 segments of the LAN providing alarms for network outages or module substitution conditions. The CLOE's Ethernet port also provides electrical isolation between RS485 LAN segments giving the added benefit of a LAN isolator module.



Features:

- Transmit Concept RS485 LAN over Ethernet Networks
- Convert Standard RS485 LAN Modules into Ethernet LAN Modules
- Extend 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 RS485 LAN segments

Connectivity



The Concept 4000 CLOE system provides complete IP connectivity across all Concept 4000 modules. Installers can mix and match IP and RS 485 based systems and choose the most appropriate LAN for their requirements. IP Door Controllers have been commonplace for many years however the CLOE now delivers IP terminals, IP zone expander modules, IP Touch screens and more.

SPECIFICATIONS

Physical	
PCB Dimensions:	95(L) x 95(W) (mm)
Installation Environment:	0°C-40°C @ 15% to 85% Relative humidity (non condensing)
Firmware Requirement	
Control module firmware version	7.42 or higher
Electrical	
Input Voltage to PCB:	(11-14VDC)
Operational Current:	Typical : ~65mA Max: 110mA
Network usage & Requirements	
Ethernet Connector:	RJ45
Ethernet LAN:	10baseT / 100baseT (802.3i / 802.3U)
Peak Bandwidth Usage:	19.2Kbps
Module and Addressing Constraints	
CLOE Slaves per Master ratio:	4:1 (Max of 4 slaves per Master)
Concept Modules per slave LAN leg:	10 for CLOE V1 (See Installation manual for CLOE V2)
Masters per C4000 Control Module:	1 for CLOE V1 (Multiple for CLOE V2)
Max Modules per C4000 Control Module:	250 (Or as per Memory Configuration)

Ordering options

995093
Concept LAN over Ethernet Module

Distributed By:

inner range
1 MILLENNIUM COURT
KNOXFIELD, VICTORIA, AUSTRALIA 3180
www.innerrange.com