ECM
Ethernet Communication Module

OVERVIEW

The ECM (Ethernet Communication Module) is a serial to ethernet converter that enables CEM serial communication devices (such as the S600s reader range, InfoProx reader and the DCM 150), to connect to the AC2000 central system via an Ethernet LAN.

A chain of up to 16 RS485 CEM devices can be connected to a single ECM (up to a maximum distance of 1.2 KM). This provides a cost effective means of connecting groups of serial readers to the AC2000 system from a single Ethernet point.

Simply load the software & configuration file supplied on the CD, and enter the network details.

Ethernet Communication Module

FEATURES

- Low cost serial to ethernet converter

- RS485 connection for multi-dropping up to 16 CEM serial devices on one chain

- 10/100Mbps Ethernet through an RJ45 connection

- Configuration connection with Tibbo Device Server Toolkit

- Board only version available to support existing CEM legacy installations that use NCN's

- Transparent connection between the CEM serial devices and the AC2000 Lite controller or the AC2000 SE Ethernet reader controller (RTC)

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Serial Reader/Device Compatibility on an IP System

The ECM improves communications by enabling traditional serial card readers/devices to be quickly and easily connected to an IP-based Ethernet network. A board only option is available to connect into a NCN device in an existing CEM legacy system.

RS485 Network Compatibility

A single ECM can be connected to a chain of up to 16 RS485 readers and multi-dropped up to a distance of 1.2KM.

System Compatibility

The ECM can be used with the AC2000 SE (Standard Edition) or the AC2000 Lite access control systems.

Packaging Options

The ECM is supplied as a standalone boxed unit. A board only option is available to connect into a NCN device in an existing CEM Legacy System.

Windows Configuration

The ECM makes use of a Tibbo Ethernet module for connection to the Ethernet network. Tibbo supply a simple Device Server Toolkit (DST) application for setup and network configuration. Sample configuration files for standalone and legacy (ENCN) modes of operation are supplied.

TECHNICAL SPECIFICATIONS

PHYSICAL

Size	140 x 110 x 35mm (5.5 x 4.3 x 1.4")
Weight	0.2Kg
Housing	Plastic enclosure or PCB only
Housing colour	Beige
Power	
- Voltage	12Vdc
- Current Consumption	250mA (excluding reader)
Environmental Temperature	-10°C to 55°C
LED Indicators	+12 Volts Power RS485 Rx and Tx
Tibbo LED Indicators	Ethernet 100BaseT Ethernet Link Status Red Status Green

FUNCTIONALITY

Inputs	10/100MB Ethernet via RJ45 connector
Outputs	RS232 via DB9 connector RS485 via 2 part screw terminal
Reader Power Output	12V, limited to 750mA (MAX) to power a single CEM reader. Excludes lock power
Configuration	Configurable via Device Server Toolkit, telnet or serial connection

COMMUNICATION INTERFACE

To Host	10/100 Base-T TCP/IP using CAT5/6 Unshielded twisted pair Cable
Connection	RJ45
To RS485 Card Reader	RS485 multidrop cable runs using using Belden 8723 with maximum length of 1.2km without repeater
Connection	2 part screw terminal

PRODUCT CODES

ECM/200/000	ECM (Complete with PSU and Enclosure)
ECM/200/B04	ECM Board Only Module (For use in CEM legacy Systems)

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