

## **ECM**

### **Ethernet Communication Module**



#### Features that make a difference:

- 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)

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 controllers), to connect to the AC2000 central system via an Ethernet LAN.

The ECM can support a chain of up to 16 RS485 CEM devices connected to a single channel (up to a maximum length of 1.2 KM). This provides a cost effective means of connecting a group of serial readers to the AC2000 system from a single Ethernet point.

Simply load the software and configuration file supplied on the CD, and enter the network details. The AC2000 WEB tools application also offers straight forward system set up.

# 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.

# RS485 Network Compatibility

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

#### **System Compatibility**

The ECM can be used with the AC2000 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.



#### **Specifications**

Physical

Weight. 0.2Kg
Housing. Plastic enclosure or PCB only

Housing colour . . . . . . Beige

Power

Voltage . . . . . . . . . . . . . 12Vdc

Current Consumption . . . . . 250mA (excluding reader)

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

Reader Power Output . . . . . 12V, limited to 750mA (MAX) to power a single

CEM reader. Excludes lock power (subject to

cable resistance)

Configuration . . . . . . . . Configurable via Device Server Toolkit, telnet or

serial connection, AC2000 web tools

Communication Interface

Outputs..... RS232 via DB9 connector

RS485 via 2 part screw terminal To Host ...... 10/100 Base-T TCP/IP using CAT5/6

Unshielded twisted pair Cable

Connection . . . . . . . . . . . . RJ45

To RS485 Card Reader . . . . . RS485 multi-drop cable runs using Belden

8723 with maximum length of 1.2km without

repeater

Connection . . . . . . . . . 2 part screw terminal

#### Requirements

Compatible with the AC2000 access control family:

AC2000 SE

AC2000 AE

AC2000 Lite

#### **Ordering Information**

| Product Code | Description                           |
|--------------|---------------------------------------|
| ECM/200/000  | ECM (Complete with PSU and Enclosure) |

#### **Related Products**







AC2000 Lite

AC2000 AE

www.cemsys.com