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 straightforward 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
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
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
Inputs: 10/100MB Ethernet via RJ45 connector
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

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECM/200/000</td>
<td>ECM (Complete with PSU and Enclosure)</td>
</tr>
<tr>
<td>ECM/200/B07</td>
<td>ECM Board Only</td>
</tr>
</tbody>
</table>

Related Products

AC2000 SE  AC2000 AE  AC2000 Lite