

## Overview :

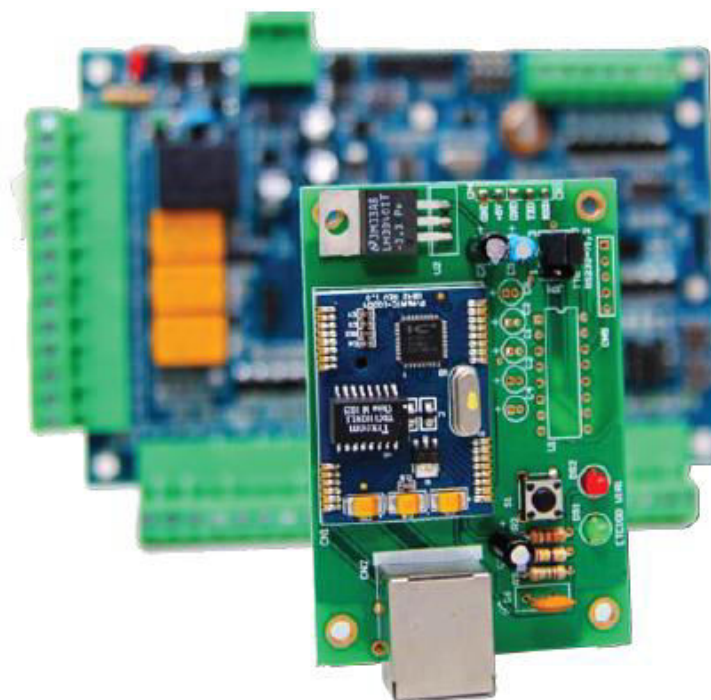
ELOCK AxSys EL-2000 is a multi door access control system. AxSys EL-2000 controller designed for easy setup & configure as single door with IN & OUT reader connection, Two doors with reader as IN and exit push button as OUT, Two door emergency/fire controls. AxSys EL-2000 controller is designed base on open platform concept, It allow seamless integration with RFID proximity readers, Mifare Smart Card readers, Integrated Keypad readers and Biometric readers.

This door access control system designed to communicate via TCP/IP connection, RS485 or RS232 connection. AxSys, the management Software allows system user to manage card user database, allow access level, maintenance database, time attendance reporting and monitoring card user transaction events.

## Features :

- ✓ Support up to 10,000 card users
- ✓ Support up to 30,000 off-line transaction events
- ✓ Support 2 Wiegand access card reader inputs
- ✓ Support integrated keypad reader (Rosslare, HID)
- ✓ Support up to 10 sets of facility code definition
- ✓ Support up to 128 sets of time interval, time zone and access level definition
- ✓ Support bits setting on Wiegand reader inputs
- ✓ Door exit push button with Time zone controls
- ✓ On board buzzer for audible sound alert and real time clock to maintain accuracy of system date time
- ✓ LED and Buzzer controls on standard Wiegand interface reader
- ✓ Support controller operation mode (1-door with In & out reader, 2-doors with In reader & Exit Button, 2 doors emergency control/monitoring)
- ✓ Support door access operation mode (Pin only, Card only, Card + Pin)
- ✓ Antipassback function with time zone controls
- ✓ Interlocking function with time zone controls (2-doors mode)
- ✓ 10 sets of local access pin number with time zone controls
- ✓ Local programming via LCD & Keypad inputs
- ✓ Card user expiry date checking PC host connection via RS232/RS485 or
- ✓ TCP/IP linkage
- ✓ Time attendance processing with multiple shift assignment (non-overnight)
- ✓ Time attendance reporting with overtime, lunch break and work hour calculation
- ✓ Build in data importing and exporting tools
- ✓ Data downloading and data uploading function
- ✓ Auto time synchronization from PC time to controller
- ✓ Support Duress Alarm Processing
- ✓ Buddy mode (Dual card mode)
- ✓ Remote door security ON/OFF commands
- ✓ Support fire alarm signal inputs

| EL-2000 Specification : |                             |  |
|-------------------------|-----------------------------|--|
| 1                       | Micro Processor             | 16 bits MCU  |
| 2                       | Operating Voltage           | VDC 9.0 ~ VDC 14.0   |
| 3                       | Operating Currents          | 500mA  |
| 4                       | Operating Temperature       | 60°C   |
| 5                       | Operating Humidity          | 95% Non Condensing   |
| 6                       | Operating Frequency         | 24MHz  |
| 7                       | Flash Memory                | 8MB Flash Memory, 512KB RAM  |
| 8                       | Communication Port          | 1 Unit of TCP/IP Ethernet Port<br>2 Units of RS232/RS485 Terminal                      |
| 9                       | Communication Link          | RS232, RS485 or TCP/IP   |
| 10                      | Timer & Clock               | Onboard Battery Backup Real Time Clock   |
| 11                      | Audible                     | Onboard 12Vdc Magnetic Buzzer  |
| 12                      | Output Point                | 3 Units of FORM-C 3A Relay Contact   |
| 13                      | Input Point                 | 4 TTL Inputs for Door Sensor & Push Button<br>2 TTL Inputs for Car Parking Sensor Loop |
| 14                      | External Display Connection | 2x20 Characters With Backlit Display   |
| 15                      | External Keypad Connection  | 4x4 Matrix Keypad Input  |
| 16                      | Terminal Block              | Pluggable Connector Block  |
| 17                      | Input Point Protection      | 15KVA Surges Protection  |
| 18                      | Serial Port Protection      | Embedded With Resettable Fused<br>TVS On Communication Circuitry                       |
| 19                      | Status Indication           | LED Indication for<br>Power/Relay/Communication Points                                 |
| 20                      | Watchdog Reset              | Equipped with Internal and External<br>Watchdog Reset Circuitry                        |
| 21                      | Power On Reset              | Equipped With 4.7Vdc<br>Triggering Threshold Voltage Level                             |
| 22                      | PCB Dimension               | 155 mm (W) x 95 mm (H)   |
| 23                      | Net-Speed                   | Ethernet 10/100Mbps (IEEE 802.3 Compliant)   |

**AxSys IP200 Serial to Ethernet Device for EL-2000 Board:****Overview :**

ELOCK IP200 Serial-to-Ethernet device designed for manufacturers who want to add sophisticated network connectivity to their serial device. ELOCK IP200 Serial-to-Ethernet device can be use to convert any device with a standard serial interface to an Ethernet device in no time. The IP200 Serial-to-Ethernet support 10/100Mbps Ethernet and support ready to use operation mode, including TCP server, TCP client and UDP server.

| IP200 Specification : |                                |   |
|-----------------------|--------------------------------|---|
| 1                     | Configuration Option           | Web Console   |
| 2                     | Ethernet Interface             | Number of Port : 1<br>Speed : 10/100Mbps<br>Connector : RJ45<br>Network Operation Mode : TCP Server/TCP Client/UDP                            |
| 3                     | Serial Interface               | Number of Port : 1<br>Serial Standard : RS232/TTL<br>TTL Signal : RxD, TxD, GND<br>RS232 : RxD, TxD, GND                                      |
| 4                     | Serial Communication Parameter | Data, Bit 5,6,7,8<br>Stop Bit : 1 (Default), 2<br>Parity : None (Default), Even, Odd<br>Flow Control : None<br>Baudrate : 300bps to 230400bps |
| 5                     | PCB Dimension                  | Dimension : 78 mm x 51 mm<br>Weight : 28g   |
| 6                     | Power Requirement              | Input Voltage : 5Vdc<br>Power Consumption : 350mA @ 5Vdc  |
| 7                     | Reliability                    | Automatic Reboot Trigger<br>(Built-In Watchdog Timer)   |
| 8                     | Environment Limit              | Operating Temperature : 0°C to +70°C<br>Storage Temperature : -20°C to +85°C  |

| Ordering Information : |   |
|------------------------|---|
| EL-2000                | AxSys - Access Control Board  |
| EL-2000L               | AxSys - Lift Access Control Board Only (5th Floor Control)                |
| EL-2100L               | AxSys - Lift Access Control Board Only (64th Floor Control)               |
| IP200                  | Elock IP200 Serial to Ethernet Device (Built-In Type)                     |
| EL-8PL                 | 8 ports - lift interface module w/o PSU & Casing<br>(use with EL-2100L )  |
| EL-TCPIP-100           | MOXA Network Interface Unit ( Serial Device Server )<br>c/w Power Adaptor |
|                        |   |