

EL5500

EL5500 Networked Controller

The EL5500 Multi-function Integrated Networked Controller by ELID serves as the core access control engine for Matrix V system. The EL5500 provides power, performance, and flexibility for the most demanding applications. Multiple combinations of Input/Output Field Devices, Card Reader Interface Units and local Input/Output modules can be connected.



The EL5500 can communicate upstream with server host via Ethernet TCP/IP networks.

With Enhanced memory capacity, the EL5500 has an option to configure the memory allocation in the following manner.

- 100,000 Card Users, 23,000 Transactions
- 33,000 Card Users, 160,000 Transactions
- 50,0000 Card Users, 80,000 Transactions

The EL5500 can have three downstream 2-wire RS-485 channels.

For the first RS-485 channel you may connect up to 8 reader interface units.

For the second RS-485 channel you may connect up to 8 reader interface units.

Each RS-485 channel caters for 16 ENTRY and EXIT readers,

This gives the EL5500 unprecedented capability of handling up to 16 simultaneous access points.

On the 3rd RS-485 channel you may connect up to 8 input and output field devices. Each device uses one device address.

Features and Functionality

- Host communications - Ethernet TCP/IP, or ADSL modem with Dynamic DNS support
- 5VDC / 1A input power
- Multi-function, configurable for either Card access, Lift control, Carpark control, Time clock or Mixed Mode
- Enhanced anti-passback capabilities
- 40 holidays
- 99 timezones, with 99 timers, each with 4 time intervals
- Escorting dual-card mode for high security door
- Special Card capability to arm and disarm sensors
- Lift control, support for 64 floors
- 3 MB on-board memory (Configurable Memory Allocation)
- Status LEDs for DC Power, Database Health, CPU heartbeat, Ethernet and RS485 communication
- Dedicated inputs for tamper, battery low and AC power failure status
- Advanced Encryption Standard 128-bit secured communication algorithm

EL5500 Network Controller

Model	EL5500
Manufacturer	ELID Sdn Bhd
Country of Origin	Malaysia
Microprocessor	32-bit 386EX running at 25MHz
Card Users	100,000/33,000/50,000 local

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Transactions	23,000/160,000/80,000 local
Memory	4 MB RAM
Modes of Operation	Card, PIN & Card + PIN
Standalone Operation	YES
Real-Time Scanning	YES
Tamper Detection	YES
Display	2 x 20 alphanumeric
Connectivity	TCP/IP, RS485
No. of RS485 BUS	3
Onboard I / O	2 Input Points / 1 Output Point
Max. Doors Supported	16 Doors
Access application	Door, Car Park Access, Time Clocking
Types of Readers Supported	Barcode, Magnetic, Proximity, Smart Cards, Biometrics, Touch Memory
Max. Readers Supported	32 (16IN and 16 OUT Readers)
Max. RIU Supported	8 units of ER505 2-Door Reader Interface Unit (RIU) or 16 units of ER504 1-Door RIU or 16 units of ER502 1 Door RIU
Max. EFD Supported	8 units of EFD80 Electronic Field Device
Max I / O Modules	8 units of EA5168 I / O Module
Operating Temperature	0°C to 60°C
Humidity	10% to 90% non-condensing
Power Requirements	5VDC / 12VDC with 3 Amp Charger
Casing Dimensions	410 (H) x 400 (L) x 120 (W)
Approximate Weight	7 kg with Casing and Power Supply
Approximate Weight	800grams without Casing & Power Supply

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