

# ER505

## ER505 Reader Interface Unit



Matrix V offers a dual reader interface unit (RIU) module for access control solutions. You may connect to 2 access points that are in close proximity to the ER505. The ER505 may be equipped with 2 ENTRY and 2 EXIT readers.

The ER505 Access control card readers, keypads, for readers with keypads that use standard Wiegand Data1/Data 0 or clock are supported. The ER505 employs 2 Wire RS-485 data communications. Lock, unlock and customer code functions, are supported on all readers connected to the RIU. Each RIU supports up to 7 different card formats as well as customer codes for both magnetic and wiegand card formats.

The RIU provides a vital link between, Advanced Multi Door Controller (AMDC) System, and the card reader attached to the interface. As many as 4 ER505 RIU modules can be multiplexed using RS-485 2 wire communication up to 1km per port away from the AMDC. You may have a combination of ER502, ER504, ER505 or EK9i units on the same bus, for a maximum of 8 access points.

Each RIU is individually addressed for increased reporting capabilities with Matrix V Access Control Software applications. The RIU provides connectivity to an external board (EA-8) to include 2 inputs that supports, normally open normally closed, supervised and non-supervised circuits. The EA-8 also supports 6 output relays support failsafe or fail secure operations.

### Features & Functionalities

- 12 VDC power supply
- Supports Data1/Data0, Clock/Data and Keypads
- UP to 7 different card formats
- Customer Code Support
- Door Contact Open or Closed, Supervised or non supervised
- Push Button Monitor
- Bi Color or 2 wire status LED support
- Reader Beeper control
- Elevator Control, support for 32 floors

### ER505 Reader Interface Unit (2 doors)

Model	ER505
Manufacturer	ELID Sdn Bhd
Country of Origin	Malaysia
Microprocessor	8-bit CPU (68HC11) with 128K ROM and 8K RAM
Communication	2 wires RS485 Interface (Data+, Data-)
Protocol	Peer-to-peer collision detection protocol (E-BUS)
Max. Doors Supported	2 Doors (each with one IN and one OUT reader)
Modes of Operation	Card, PIN & Card + PIN
Standalone Operation	No
Type of Reader Supported	Barcode, Magnetic, Proximity, Smart Cards, Biometrics, Touch Memory
Max. Readers Supported	4 (2IN and 2 Out)
Onboard Inputs / Outputs	4 Inputs, 2 Output

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## ER505 Reader Interface Unit (2 doors)

EA8 I / O Capacity	2 EA8 units (4 dedicated door outputs, 2 inputs and 2 outputs per EA8)
Operating Temperature	0°C to 60°C
Humidity	10% to 90% non-condensing
Power Requirements	12VDC 100mA excluding reader
Casing Dimensions	410 (H) x 400 (L) x 120 (W) mm
Approximate Weight	400grams

