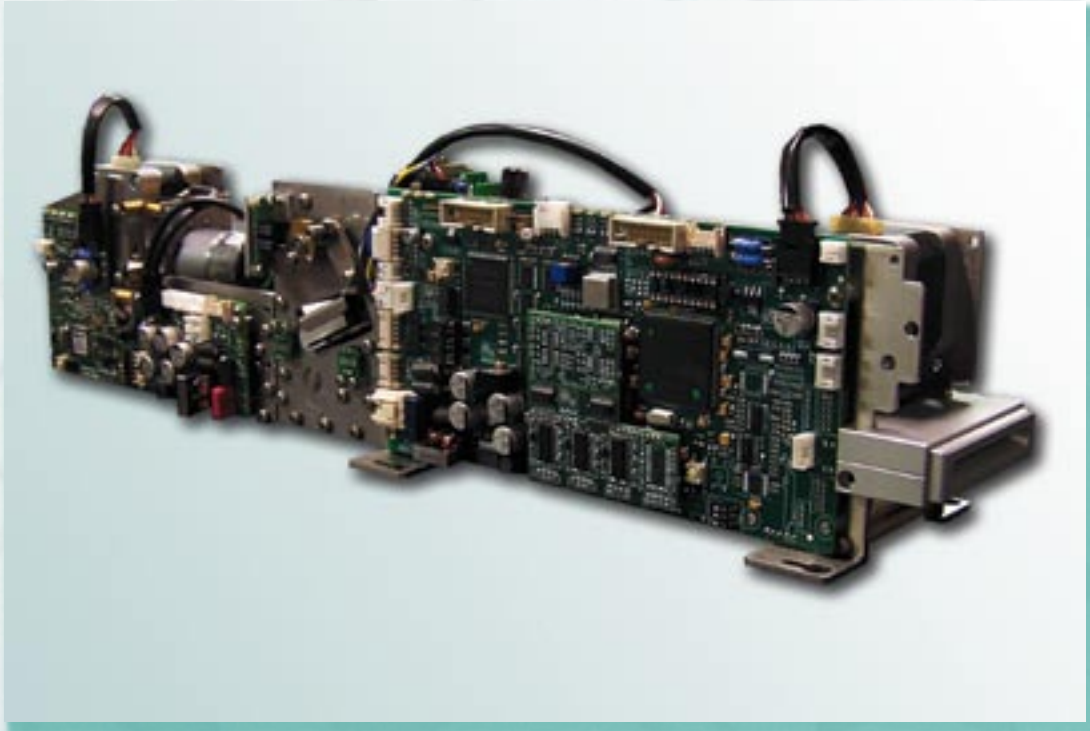


ENC_THS

Reader encoder with full graphics
thermal printer and Power PC



Description

The **ENC_THS** module is a new generation device and presents 4 distinguishing features:

1. High performances and configurability of magnetic tracks
2. High speed thermal printing (impact printer optional)
3. 32 BIT RISC processor

Mechanical structure

The **ENC_THS** is the result of the experience developed and tested with the Adel Modular System in the most harsh situations. Distinguishing features are presented in the improvement of the transport system of the titles based on special rubber rollers and on the use of a CPU_RISC board. The introduction of these two elements allow the realisation of a device that reads/encodes magnetic titles of variable thickness from 0.18 mm. to 0.8 mm. with operative speed up to 800 mm/sec.

The **ENC_RISC** can read and encode simultaneously up to four ISO standard magnetic tracks at 75 and 210 Bpi or four TRANSAC tracks in central and/or lateral, upper and/or lower position

Technical features of the base version

- High operative speed and reduced cycle time
- Reading and encoding up to 4 tracks simultaneously
- High configurability of magnetic heads that can be placed in following positions:
 - Lateral
 - Central
 - Central up and down for reading and encoding of the ticket in 4 insertions ways ("user friendly" system)
- Easy personalization of printing format of tickets with barcodes, images and texts which fonts can be oriented and graduated. It is possible to print on the whole surface of the ticket.
- Possibility to manage up to three titles during the same working cycle.

Options available for base version

- Track ISO1 and ISO3 at 210 bpi reading and encoding
- TRANSAC track reading and encoding
- Treatment of magnetic track at High or Low coercivity
- R/W chip card Interface
- R/W contactless cards ISO 14443 A or B and ISO 15693 Interface
- Laser scanner for barcode reading
- Shutter with magnetic pre-head

Electronic features of base CPU board

The module is controlled by the means of a CPU board that hosts firmware and has following features:

- CPU risc board 32 bit Fujitsu
- Ram Memory up to 512 Kb
- Flash Memory 512 KB

Options available for base CPU board

- RS422/485 Interface
- Contactless Card Interface control
- LCD display 1x8 up to 2x40 characters Interface control
- I/C Card Interface control
- Shutter Interface control
- I/O optocoupled (3 Input and 3 Output).

Optional modules

- BARCODE READER printed in longitudinal way with CCD scanner or transversally with laser scanner
- CHIP CARD DEVICE for R/W IC card
- CLESS DEVICE for ISO 14443 A or B e ISO 15693
- THERMAL PRINTER full graphics 12 dot/mm up to 300 mm/sec
- FED899/R feeder for magnetic tickets in roll or fanfold
- METRO MODULE rear exit unit for turnstiles

Technical data

Dimensions vers. 43/54 (mm.)	100 (H) x 104,4 (W) x 284 (L) base version
	125 (H) x 104,4 (W) x 296 (L) version with printer
Power supply	24 Vdc – 3,5 A max
Operative speed	Up to 800 mm/Sec.
Average life magnetic heads	> 1.000.000 cycles
Interface	EIA RS232C, RS422/485
Protocol	Asynchronous up to 115,200 bps 7 bit, even, 1 stop

Adel s.r.l. Reserves the right to change technical data without advise



Adel S.r.l.

Legal address: Via Saffi 58 – 41100 Modena Italy

Operative address: Via Nonantolana 970/1 - 41100 Modena Italy

Tel: ++39 059 2550137 • Fax: ++39 059 2551207 • www.adel2000.it • email: adel@adel2000.it