



*KY*Boards by Kalysis

Teclados para tarjetas magnéticas e inteligentes

→ **KY-101-T**



En la imagen el **KY-101-T** aparece con dos lectores de tarjetas inteligentes. La configuración estándar es un **lector/grabador de banda magnética** + un **lector/grabador de tarjeta inteligente**.

Applications:

KY-101-T keyboard integrates latest smart card and magstripe card technology. It is ideal for all forms of data entry based on smart cards and magstripe cards for secure electronic transactions or authentication. Typical applications are as below:

- All-in-one terminal keyboard for banks, airports, hotels
- Point of Sale with VIP system

Main Features:

- Integrate smart card terminal and magstripe readwriter into a single keyboard, saves your space and occupy less host system resources
- Keyboard keys are using Cherry MX keys based on Gold Crosspoint technology, and have good tactile feeling
- Two different key actions (soft contact and key click)
- Laser-engraved keycap symbols are wear-resistand and easy to clean
- Dual smart card readers
- Three built-in SAM card modules on the underside of the keyboard
- SCR Can read/write any ISO7816 standard asynchrone card (T=0 and T=1) and synchronus card (AT24C01 ~ 16, SLE4442 SLE 4432 and SLE4418 SLE4428)
- Data is transferred to the host through RS-232C

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- MSRW comply with ISO 7811/12 and IBM standards - With LEDs and buzzer for the operation status

Technical Specifications:

Keyboard

Interface: PS (2) (6-pin mini DIN)

Life cycle: 50,000,000 strokes

Total travel: 4 - 0.4mm

Pretravel: 2+0.6mm

Peak load before make: 60+20cN

Magstripe Readwriter

Card swipe speed: 20cm/s ~ 80cm/s

Recording density

Third track: 210BPI

Second track: 75BPI , 210BPI

First track: 210BPI

Recording character

210BPI: max 107

75BPI: max 37

First track: max 76

Baud rate: 1200, 2400, 4800, 9600bps

Interface: RS232C

Reliability: MTBF larger than 20000H, MTTR less than 30 MIN

Head life: Greater than 500,000 times

Smart Card Terminal

Baud rate: 1200, 2400, 4800, 9600bps

Life Cycle: Smart card connector larger than 200,000 push-pull

SAM card module larger than 5,000 push-pull

Interface: RS232 (shared with MSRW)

Electronics

Power supply: +5V DC+10%

Current input: less or equal to 300mA

Others

Storage temperature: -40 C ~ +60 C

Operating temperature: 0 C ~ +50 C

Operating humidity: 40% - 90%

Dimensions (LxWxH mm) 406x210x58

SCR Configuration

X1: M (with main smart card module)

X2: S (with side smart card module)

X3: n (where n means the number of SAM modules)

Note: Replace the value by N when the function is not required

(e.g.) MS2 means having both smart card readers plus 2 SAM modules

MSRW Configuration

X1: Track 1 (1 for chosen, N for not applicable)

X2: Track 2 (2 for chosen, N for not applicable)

X3: Track 3 (3 for chosen, N for not applicable)

(e.g.) N23 - mean double tracks with Track 2 and Track 3

International Layout

DE German

GB English (UK)

FR French

ES Spanish

US American

→ **KY-104-S**



El **KY-104-S**, incorpora **lector (no grabador) de banda magnética**, y **lector/grabador de tarjeta inteligente**.

Key Features

With built-in Smartcard reader and Magnetic card reader, three-in-one USB interface
With 104 Cherry MX keys based on Gold Crosspoint technology, and have tactile feeling
Two different key actions (soft contact and keyclick)
Laser-engraved keycap symbols or high quality UV silk screen printed keycap symbols
Operating life cycle of individual keys:
 Soft contact mode: 50 million strokes
 Key click mode: 20 million strokes
Damaged keys can be easily replaced and hence save the replacement cost
With internal metal plate for key fixation, the protection against ESD is increased
Can be upgraded to programmable version

MagStripe Reader Features

Comply with ISO 7812, IBM standards, American Driving License
Support multi-country code settings
Support programmable MSR setting for the header, tailor, separator, suffix and prefix, track sequence
Track 1: 210BPI with max 76 characters
Track 2: 210BPI with max 107 characters or 75BPI with max 37 characters
Track 3: 210BPI with max 107 characters
Card swipe speed: 10 to 100 cm/s
500,000 swipe cycles
Available Configuration: Track 1,2 or Track 2,3 or Track 1,2,3

Smart Card Reader

T=1, T=0 protocol support; Memory card support through SCM MCARD API
Communication speed up to 344,105 bps (PPS, FI parameter)
Frequency up to 12 MHz (PPS, DI parameter)
Support ISO 7816 Class A and AB smart card
Sliding contact connector; Certified for 200,000 insertions
Support PC/SC, CT-API (thru wrapper on top of PC/SC); OCF upon request
Full speed USB (12Mbps); Bus powered device; CCID compliant

Dimension

470(L) * 190(H) * 45(W) mm

International Layout

DE German, GB English (UK), FR French, ES Spanish, US American

