



Industrial High-Speed Card Reader



HSR

Modular High-Speed Card Reader for retrofitting in personalization equipment

OEM
QUALITY ASSURANCE
PRODUCTION
DESKTOP
ACCESSORIES

RINAS HSR

RINAS HSR – READING UP TO 20K CARDS AN HOUR IN EXISTING PERSO STATIONS

The Rinas HSR accurately reads magnetic card information on all three HICO and LOCO tracks at up to 1.2 m/s or approx. 20,000 cards per hour providing the cards are guided and the transport is uniform. Evaluation of the information can then be performed by a host system in real-time for the ultimate in quality control.

The magnetic head challenge

The magnetic head unit can read all three tracks of a standard ISO7811 card encoded to both HICO or LOCO coercivity levels and can even recognise transparent medium. Optionally available and customer adjustable counter-rollers are used for maintaining optimum head contact pressure and enable various card thicknesses to be catered for.

Versatile deployment possibilities

The HSR can be used during the card personalization stage by sending the read back information to a host system to ensure, for example, that the encoded information on the card is in agreement with the data that was sent. Another application is where the information stored on magnetic coded cards has to be in agreement with that appearing on printed paper, or wherever card data need to be read and checked for standards conformity.

Intelligent electronics with adaptable configurations

Flying leads (approx. 1m) attach the head unit to the control electronics, which are normally housed at a convenient location within the personalization equipment. Since the head units are flexible, customized configurations, such as JIS, can be easily catered for. The unit does require a signal indicating that the card is positioned under the head - usually from a sensor mounted directly on the head unit - and the customer must ensure that cards are guided accurately, the transport is uniform and that the Rinas requirements are fulfilled.

Complete with its serial interface, the control electronics are responsible for data collection and transmission to a host computer, where the read-back data can be verified and suitable action taken should there be a discrepancy.

Provision has been made for attaching a second head unit, typically located at a different position within the personalization equipment, allowing the customer to select (via a suitable serial command) which should be active at any given time. As such, only one head can be in operation while the other remains disabled.



Encoded Information

Magnetic Stripe <ul style="list-style-type: none"> ■ LOCO: Up to 3 tracks ■ HICO: Up to 3 tracks ■ 300 Oe to 4,000 Oe 	Bit Density <ul style="list-style-type: none"> ■ Standard: <ul style="list-style-type: none"> Tracks 1 & 3: 210 bpi Track 2: 75 bpi ■ Customized: <ul style="list-style-type: none"> Up to 3x 300 bpi 	Encoded Information <ul style="list-style-type: none"> ■ Standard (ISO7811): <ul style="list-style-type: none"> Track 1: alpha-num. Tracks 2&3: numerical ■ Free bit encoding ■ Customized 	Modulation Type <ul style="list-style-type: none"> ■ Standard: F2F ■ Optional: Other types are available
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Card Parameters

Card Dimensions <ul style="list-style-type: none"> ■ Length: 85.7 mm Other lengths possible ■ Width: 54.0 mm to 204 mm (gift cards) 	Card Thickness <ul style="list-style-type: none"> ■ 0.2 mm to 1.5 mm The spring-loaded head elements should retract by 0.4 mm on head contact. 	Card Types <ul style="list-style-type: none"> ■ All colours ■ Transparent cards ■ Embossed cards 	Standards <ul style="list-style-type: none"> ■ ISO 7811 ■ JIS ■ Visa Mini Card ■ AAMVA (US driver's licence)
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Equipment Parameters

Throughput <ul style="list-style-type: none"> ■ Max. 20,000 cph ■ Approx. 1.2 m/s Magstripe Location <ul style="list-style-type: none"> ■ User defined 	Control <ul style="list-style-type: none"> ■ 1x RS232 ■ 2x Magnetic heads Power <ul style="list-style-type: none"> ■ 24V DC (0.5A) 	Unit Dimensions (mm) <ul style="list-style-type: none"> ■ L/W/H: 300/200/120 Head Dimensions (mm) <ul style="list-style-type: none"> ■ L/W/H: 90/60/30 	Temperature Range <ul style="list-style-type: none"> ■ Operating: +10°C to +35°C ■ Storage: 0°C to +40°C Weight <ul style="list-style-type: none"> ■ Approx. 4.5 kg
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