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JR101 5-in-1 Smart Decoder

The Jannu JR101 is an industrial-grade intelligent decoder that combines five reading methods in a single device: magnetic stripe cards, 13.56 MHz IC cards, 125 kHz ID cards, 1D barcodes, and 2D codes.

Main Features

*** Five Decoding Methods in One Device – Reads magnetic stripe, IC, ID, 1D, and 2D codes, reducing USB ports, desktop devices, and decoder purchases.**

*** Magnetic Stripe Reading – Bidirectional, double-sided reading of tracks 1 / 2 / 3, compliant with ANSI/ISO 7810 and 7811; swipe speed 10–120 cm/s; head life ≥ 1,000,000 passes.**

*** Contactless IC and ID Cards – 13.56 MHz ISO 14443 Type A/B, MIFARE, S50, S70, Fudan F08, and UL; 125 kHz EM4305 / EM4100 ID cards (HID WG26 / W34 customizable).**

*** 1D and 2D Barcode Recognition – A wide range of 1D symbologies plus QR Code, including printed codes and on-screen codes.**

*** Fewer Ports and Less Desktop Clutter – One device replaces multiple decoders, reducing operational errors from switching readers.**

*** Broad OS and Interface Support – Windows 2000 / 7 / 8 / 10 / 11, Android, and Linux, with HarmonyOS customizable; standard USB, with RS-232 / TTL / RS-485 / Type-C / Mini-USB as custom options.**



1. Specification

Type	Details	Descriptions
General	Model	JR101
	Product Type	5-in-1 smart decoder (magnetic stripe, IC, ID, 1D, and 2D)
	Dimensions	Upper cover 9 × 9 cm; lower cover 9.48 × 9.48 cm; height 3.9 cm
	Weight	380 g
Environment	Relative Humidity	20%–80%
	Operating Temperature	−30 to 80 °C
Magnetic Stripe	Standards	ANSI/ISO; ISO 7810, 7811-1 / 2 / 3 / 4 / 5
	Tracks	Reads tracks 1 / 2 / 3; double-sided, bidirectional recognition
	Encoding	F2F (FM)
	Swipe Speed	10–120 cm/s
	Head Lifetime	≥ 1,000,000 passes
IC Card (13.56 MHz)	Frequency	13.56 MHz (standard product: 10-digit decimal output)
	Supported Cards	ISO 14443 Type A / Type B, MIFARE One (M1), S50, S70, Fudan F08, and UL contactless IC cards
ID Card (125 kHz)	Frequency	125 kHz (standard product: 10-digit decimal output)
	Supported Cards	EM4305 / EM4100 125 kHz RFID ID cards; American HID WG26 / W34 customizable
1D / 2D Barcodes	1D Symbologies	UPC-A, UPC-E, EAN-13, EAN-8, ISBN/ISSN, Code 39, Code 39 (full ASCII), Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Codabar, Code 128, Code 93, Code 11, MSI/Plessey, UK/Plessey, UCC/EAN-128, China Post, GS1 DataBar (formerly RSS) series
	2D Symbologies	QR Code
	Barcode Types	Printed codes and screen codes; special codes customizable
Interface & Software	Interface	Standard USB; customized RS-232 / TTL / RS-485 / Type-C / Mini-USB available
	Operating Systems	Windows 2000 / 7 / 8 / 10 / 11, Android, Linux (HarmonyOS customizable)
Applications	Typical Uses	Access control, membership management, supermarkets and convenience stores, ID authentication, internet cafes, office locker / storage-box control, anti-counterfeiting systems, production process control, data collection, and other intelligent-terminal decoding applications (SX501)

Supported Decoding Types



Magnetic Stripe Card



IC / ID Card



1D Barcode





2D Code

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