MARKLAND

MCR7001

Combination Barcode & NFC Reader

Supports 1D and 2D barcode scanning on-screen and Touch-go NFC Reading

The MCR7001 NFC & BarCode Smart Card Reader can read almost any credentials. Continuously and easily scans popular 1D and 2D barcodes from paper, label, and screen, like QR Code, PDF417, and Data Matrix. For the NFC/RFID world, the MCR7001 also supports all NFC Forum tags and devices compliant with the ISO 18092 standard, in addition to ISO 14443 Type A and B smart cards, MIFARE®, FeliCa®, Ntags. It complies with both Apple and Google NFC protocols on iPhone and Android devices

The MCR7001 combines the 13.56 MHz Near Field Communication (NFC) contactless technology with barcode scanning. Built for limited counter space and all-day reliability, its compact form factor is ideal for retail, loyalty, pop-up selling, events, payment or ticket or ID verification.

Versatile Reading

• Reads Apple Wallet® & Google Wallet Passes, Fast NFC, and RFID Reader (HF tags, labels, smart devices)

User Convenience

• Modern design optimized for easy and ergonomic operation, even in limited space environments

Superior QR Scanning Capabilities

• Leverages professional Core decoding technology to accurately read both printed codes and electronic screen codes (e.g., smartphones), featuring breakthrough performance in wide scanning range, high-speed recognition, and decoding damaged/reflective surfaces

Fast

• Transaction time optimized with 848 kbs support in ISO/IEC 14443 Type B for maximum end-user acceptance

Parameter	Specification
Host Interface	USB 2.0 CCID (USB 1.1/3.0 compliant)
Communication Speed	12 Mbps (USB 2.0 full speed)

	BarCode Scanner
Collection method	Image type, CMOS Sensor
Collection speed	1/60s
Field of view	Diagonal 73°，Horizontal 61°，Vertical 48°
Recognition Accuracy:	≥5mil

	Test conditions	Depth of field
Scan depth of field	ITF 18bytes 7.5mil	50~130mm
	Code 39 4mil 10B	40~100mm
	Code 128 14mil 17B	85~300mm
	QR Code 35mil	25~440mm

Parameter	Specification
Scanning angle	Pan 360°, tilt ±60°, rotation ±60°
1D code types	EAN13、EAN8、UPC-A、UPC-E0、UPC-E1、Code128、Code39、Code93、CodaBar、Interleaved 2 of 5、Industrial 25、Matrix 2 of 5、Code11、MSI Plessey、RSS-14、Restrictive RSS、Expandable RSS ...
2D code types	QR Code、PDF417、DataMatrix（ECC200） ...
Print Contrast	A minimum reflection difference of 20%

	Contactless Smart Card Interface
Supported Contactless Standards	ISO/IEC 14443 A&B Part 1~4, ISO/IEC18092
Protocols	T=CL
Supported Contactless Card ICs	MIFARE Classic® family, MIFARE Ultralight family, MIFARE Plus family, MIFARE DESFire family, FeliCa™, Calypso, CD21, NFC Forum Tag Types 1/2/3/4
Data Transfer Rate	106/212/424/848 kbits/s, depending on card IC
Antenna	Integrated

	Driver and Software
PC/SC Driver	PC/SC Specification Ver. 2.01.14 for: • Windows® 7/8/10/11 (32 and 64 bit), Windows® Server 2008/2012/2016/2019, Windows XP, • MacOS 10.9.x - 12.2.x, • Linux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit), • Android 8.0 and above
Software	PC/SC API

	Operating Conditions
Power Supply	USB Bus-powered
Power Consumption	<200mA, excluding smart card; < 300mA, with smart card
Dimensions(L x W x H)	106x 72 x 18mm
Weight	130g ± 5%
Operating Temperature Range	0° to 50° C (32° to 122° F)
Storage Temperature Range	-25° to 85° C (-13° to 185° F)
Operating Humidity Range	Up to 95% RH non-condensing
Connector	1.5m USB cable with USB type A connector
Status Indicator	Dual color LED

	Certifications / Compliance
Systems/Standards	ISO/IEC 14443, USB 2.0 Full Speed, USB-CCID, Microsoft® WHQLs
Regulatory/Environmental	CE, RoHS

For more information:
www.markland.biz
www.markland.com.cn

TECHNICAL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE.

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