

# R100

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Bluetooth  
NFC  
Smart Card Reader



High-security hardware design

Worldwide certifications make the reader an universal product on both functionality and performance

Integrated low power feature, extends battery life by automatic power-off function

**FEITIAN**  
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R001 NFC Reader is a reader/writer device that can proceed NFC card, such as ISO 14443 Type A, Type B and Felica. This accessory can be started by pressing its power button on the back side of the accessory. To read/write NFC card, the users must pair the accessory with R001 app, the app that specifically dedicated to integrator's background service, by Bluetooth connection. Once the accessory and the app are connected appropriately, users can activate the accessory to do operate their card and do payment or check-in service.

R001 is a terminal developed by FEITIAN, which combines the use of mobile intelligent devices. It supports mobile devices based on mainstream platforms such as IOS and Android. The communication mode is Bluetooth and USB. The device adopts high-performance smart card chips, designed according to PCI specifications, and conforms to EMV L1& L2 test. Also it is EMV Level 1 certified.

## Specifications

Interfaces	<b>Micro USB Type-A (CCID Standard) Bluetooth® 3.0 &amp; 4.0</b>	Casing Material	<b>ABS + PC + PMMA</b>	Working Temperature	<b>0°C ~ 60°C</b>
Transmission Speed	<b>12Mbps (USB 2.0 Full Speed)</b>	Dimension	<b>77 × 77 × 18.5 mm</b>	Storage Temperature	<b>-20°C ~ 85°C</b>
Extended APDU Length	<b>Supported</b>	Weight	<b>97g</b>	Humidity	<b>≤90% (non-condensed)</b>
Contactless Card	<b>Smart Card Interface Speed: 106~424kbps Smart Card Clock Frequency: 13.56MHz ISO 14443, Type A &amp; Type B, Felica® Protocol</b>	Status Indicator	<b>Blue, Red, Yellow, Green</b>	Physical Security	<b>Short circuit and thermal protection, Over-voltage protection, High security level chipset, Electrostatic prevention</b>
Support OS	<b>Windows 7 / Linux / macOS X / UNIX, Android 4.3+ / iOS 4.0+</b>	Connector Cable	<b>0.8m, Micro USB to USB Type-A</b>	Firmware Security	<b>Firmware encryption mechanism, Firmware upgradability in encryption, Anti-reverse analysis, firmware cannot be read out.</b>
Certifications	<b>CE / FCC / RoHS / EMV Level 1 / LTIC / BSMI / NFC / TELEC / Bluetooth® Smart / Microsoft WHQL / FIPS 201 / MFi</b>	Power supply	<b>USB port 5V DC</b>	Meantime Between Failure (MTBF)	<b>500,000 hours</b>
Standards	<b>ISO 14443, Felica®, EMV Level 1, PC/SC, USB 2.0, CCID, PC/SC Lite / WINSCARD API, Bluetooth® 3.0 &amp; 4.0</b>	Battery	<b>1350mAh</b>	Warranty	<b>Up to two years manufacturer's warranty.</b>
		Working current	<b>&lt; 180mA at full speed</b>		
		Power To Smart Card	<b>60mA</b>		
		Power Consumption	<b>Power off: 5µA Standby: &lt;50mA Full speed: &lt;180mA</b>		
		Battery Life	<b>Working mode: 24 days <small>(1 minute operation × 10 operations per day)</small> Off mode: 8 years</b>		
		Full Battery Charging Time	<b>3 hours</b>		
		Battery Warranty	<b>1 year by default</b>		