

# bR301 BLE

## Bluetooth Contact Smart Card Reader

Make your workflow wireless,  
full support of BLE  
(Bluetooth Low Energy)

World's lightest Bluetooth reader  
with a compact design,  
the BLE reader is compact enough  
to be hung on the neck as easily as  
an employee badge

Market's first CCID Bluetooth driver on Windows,  
enabling the BLE reader to work with PC wirelessly

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 automatically turning off in 3 minutes  
after last data communication



**FEITIAN**  
WE BUILD SECURITY

FEITIAN provides bR301BLE Bluetooth Ccontact Smart Card Reader which is a CCID and PCSC standard product, the product is developed based on ISO 7816 standard, which supports T0 and T1 cards, extended APDU is also supported. bR301BLE can be used on iOS, Android, PC platforms. The product is compact, light and easy to operate, with Bluetooth low power consumption design to save battery, and using latest contact technologies to support the world-wide range of commonly used IC chip cards.

bR301BLE is a card reader hardware which requires a software to communicate with. FEITIAN provides library and graphical user interface that allow user to all functions for secondary development. For mobile platforms, customer can develop their own application based on FEITIAN SDK. For PC platforms, bR301BLE is fully compatible through a traditional USB cable (Micro USB cable included in package). For using bR301BLE with Bluetooth connection on PC platforms, an extra Bluetooth CCID driver is required.

bR301BLE suites customers where security concerns are the most salient and satisfies the demand for a flexible solution for ID authentication, e-commerce, e-payment, information security and access control.

## Specifications

Interfaces	<b>Micro USB (CCID Standard) Bluetooth 4.2</b>	Casing Material	<b>PC</b>	Working Temperature	<b>0°C ~ 60°C</b>
Transmission Speed	<b>12Mbps (USB 2.0 Full Speed)</b>	Dimension	<b>91 × 63 × 8 mm</b>	Storage Temperature	<b>-20°C ~ 85°C</b>
Extended APDU Length	<b>Supported</b>	Weight	<b>31g</b>	Humidity	<b>≤90% (non-condensed)</b>
Contact Card	<b>Supported Card Types: 1.8V, 3V and 5V Smart Card Interface Speed: 10753~625kbps(when supported by card) Smart Card Clock Frequency: 4M~12M ISO 7816-3 ID-1 (full-size) ISO/IEC7816, T=0 and T=1 protocol, Class A, B, C card</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>Win2000+ / 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 / TELEC / Bluetooth® Smart / Microsoft WHQL / FIPS 201</b>	Contact principle	<b>Friction technology</b>	Meantime Between Failure (MTBF)	<b>500,000 hours</b>
Standards	<b>ISO-7816 Class A, B, C (5V, 3V, 1.8V), EMV Level 1, PC/SC, USB 2.0, CCID, PC/SC Lite / WINSCARD API, Bluetooth® Smart</b>	Durability	<b>100,000 card insertions</b>	Warranty	<b>Up to two years manufacturer's warranty.</b>
		Power supply	<b>USB port 5V DC</b>		
		Battery	<b>350mAh</b>		
		Working current	<b>&lt; 50mA without card plugged</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: 15 days <sup>(1 minute operation × 10 operations per day)</sup> Off mode: 8 years</b>		
		Full Battery Charging Time	<b>2 hours</b>		
		Battery Warranty	<b>1 year by default</b>		