# bR500

## Bluetooth
## Contactless
## Smart Card Reader

**FEITIAN**

**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 bR500 Bluetooth Ccontactless Smart Card Reader which is a CCID and PCSC standard product, the product is developed based on ISO 14443 standard, which supports Type A and Type B cards, extended APDU is also supported. bR500 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 contactless technologies to support the world-wide range of commonly used NFC cards.

bR500 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, bR500 is fully compatible through a traditional USB cable (Micro USB cable included in package). For using bR500 with Bluetooth connection on PC platforms, an extra Bluetooth CCID driver is required.

bR500 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 | USB Type-C (CCID Standard) Bluetooth 4.2 | Casing Material | PC | Working Temperature | 0°C ~ 60°C |
| Transmission Speed | 12Mbps (USB 2.0 Full Speed) | Dimension | 91 × 63 × 8 mm | Storage Temperature | –20°C ~ 85°C |
| Extended APDU Length | Supported | Weight | 31g | Humidity | ≤90% (non-condensed) |
| Contactless Card | Smart Card Interface Speed: 106~424kbps Smart Card Clock Frequency: 13.56MHz ISO 14443, Type A & Type B, Mifare© Protocol, Felica© Protocol | Status Indicator | Blue, Red, Yellow, Green | Physical Security | Short circuit and thermal protection, Over-voltage protection, High security level chipset, Electrostatic prevention |
| | | Connector Cable | 0.8m, USB Type-C to USB Type-A | | |
| | | Power supply | USB port 5V DC | | |
| | | Battery | 350mAh | Firmware Security | Firmware encryption mechanism, Firmware upgradability in encryption, Anti-reverse analysis, firmware cannot be read out. |
| Support OS | Win2000+ / Linux / macOS X / UNIX, Android 4.3+ / iOS 4.0+ | Working current | < 50mA without card plugged | | |
| | | Power To Smart Card | 60mA | | |
| Certifications | CE / FCC / RoHS / EMV Level 1 / LTIC / BSMI / NFC / TELEC / Bluetooth© Smart / Microsoft WHQL / FIPS 201 | Power Consumption | Power off: 5µA Standby: <50mA Full speed: <180mA | Meantime Between Failure (MTBF) | 500,000 hours |
| Standards | ISO 14443, Mifare©, Felica©, EMV Level 1, PC/SC, USB 2.0, CCID, PC/SC Lite / WINSCARD API, Bluetooth© Smart | Battery Life | Working mode: 15 days (1 minute operation × 10 operations per day) Off mode: 8 years | Warranty | Up to two years manufacturer's warranty. |
| | | Full Battery Charging Time | 2 hours | | |
| | | Battery Warranty | 1 year by default | | |