

bR500

Bluetooth Contactless 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 bR500 Bluetooth Contactless 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

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|----------------------|--|----------------------------|--|---------------------------------|---|
| Interfaces | Micro USB (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 |
| Support OS | Win2000+ / Linux / macOS X / UNIX, Android 4.3+ / iOS 4.0+ | Connector Cable | 0.8m, Micro USB to USB Type-A | Firmware Security | Firmware encryption mechanism, Firmware upgradability in encryption, Anti-reverse analysis, firmware cannot be read out. |
| Certifications | CE / FCC / RoHS / EMV Level 1 / LTIC / BSMI / NFC / TELEC / Bluetooth® Smart / Microsoft WHQL / FIPS 201 | Power supply | USB port 5V DC | Meantime Between Failure (MTBF) | 500,000 hours |
| Standards | ISO 14443, Mifare®, Felica®, EMV Level 1, PC/SC, USB 2.0, CCID, PC/SC Lite / WINS CARD API, Bluetooth® Smart | Battery | 350mAh | Warranty | Up to two years manufacturer's warranty. |
| | | Working current | < 50mA without card plugged | | |
| | | Power To Smart Card | 60mA | | |
| | | Power Consumption | Power off: 5µA Standby: <50mA Full speed: <180mA | | |
| | | Battery Life | Working mode: 15 days ^(1 minute operation × 10 operations per day) Off mode: 8 years | | |
| | | Full Battery Charging Time | 2 hours | | |
| | | Battery Warranty | 1 year by default | | |