

FEITIAN

bR301 Smart Card Reader

FAQ



Revision History:

Date	Version	Description
Aug, 2013	V1.0	The first
June 4, 2014	V1.1	1. Update FAQ 2. Add more FAQ in document
June 22, 2014	V1.2	3. Now bR301 v1.45 support DUKPT

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How to develop?

1. Join to apple developer center
2. Develop your application use FEITIAN SDK
3. Publish your application to AppStore

How to publish your application (with external device) in Apple Store?

Once you completed your application, you need to provide the below App information to FEITIAN:

1. Name of app as it will appear in App Store:
2. App version:
3. Bundle identifier:
4. Protocol names:

FEITIAN will add all application information to MFi product plan, then we will send PPID (product plan ID) to customer after get approval from Apple

Customer needs add PPID to review notes as below image shown, and then submit application to Apple.



Review Notes (optional) MFI PPID 123456-7890

How to debug the application with iOS device and external device?

Our SDK have two libraries which is debug and release. Customer can through called debug library to do call, all the transfer data will display in xcode.

How to display application on AppStore in iOS device?

The protocol string is use for matching the external device, when you insert the external device, the iOS system will automatically find the matching protocol string application and download it.

It can be implementing through customization if customer only wants to display their own application, they need to provide below information to FEITIAN to get product plan ID:

1. Accessory name :
2. Manufacturer name:
3. Model Number:
4. Protocol string:

Does the bR301 support Windows 8, Linux, Mac OS X?

Yes, bR301 also can through Micro USB to support this platform.

As it is PC/SC standard reader, customer doesn't need install any driver and use it.

How to work with PC (Windows / Mac OSX / Linux)?

There have two way can works on PC.

1. Through MicroUSB cable to connect with your PC.
2. Through Bluetooth port to pair with your PC.

Does the bR301 support encryption inside, like DUKPT?

We added DUKPT inside in second version. Please confirm that your reader is v1.45.

Does the bR301 get EMV Level 1 certification?

The bR301 is according with ISO 7816 to design, the hardware design is according with EMV standard, and it is totally compatible EMV Level 1. As until now, it just an authentication product, if there have payment company use it, please contact FEITIAN, we will to do EMV certification.

As from the market requirement, the bR301 got EMV certification, the certificate can check from EMVCo:

[http://www.emvco.com/approvals.aspx?id=84#FEITIANTECHNOLOGIESCO.,LTD.\(VERSION4.0\)](http://www.emvco.com/approvals.aspx?id=84#FEITIANTECHNOLOGIESCO.,LTD.(VERSION4.0))

What information can be customizing?

- Case
- Packaging
- Firmware information (reader name/brand name/protocol string)

What's the LED light means?

Blue – means Bluetooth has been activity.

Red – means recharging battery, when the battery has full, then the red light will disappear.

2013/8/19 bR301 v2.0 light means please reference bR301 user manual “Hardware configuration” section.

How long is the run-time of the bR301 from the time it is fully loaded until the battery is empty?

More than 10h, around in 10 - 12h (run-time)

How the battery is dimensioned (mAh)? (We work in a permanent running mode, i.e. the Bluetooth-connection stays active and an access to the smart card occurs sporadically).

The battery is 800mHA

Will you provide a Bluetooth - driver for Windows, i.e. contactless access from a notebook to the reader?

The windows driver already released, you can contact FEITIAN to get SDK.
For the MAC OS X, also released.

Which Bluetooth protocol version support in bR301?

Our Bluetooth reader cans compliant 2.1/3.0/3.1/4.0.

Is it possible to operate the reader with BT when it is connected to the PC via USB for battery loading purpose?

No, only can have one transaction mode (USB or BT), when you connecting with PC, then will auto close BT port.

Does the bR301 support iOS (iPhones and iPads), Android and Windows 8?

Yes, the reader supports windows 7/8 PC and Mac OS X, we already made driver on these platform, also it publish now, customer can contact FEITIAN to get latest driver and test it.

To run on Android and iOS, please keep you android kernel version is 4.0. For iOS, the kernel version must be higher than 3.1.3

How far communication that bR301 supported?

The current setting is to pair in 1meter, the communication can keep in 4 meter.
This distance can through OEM firmware to do change.

How to shut down bR301?

Press main button on bR301, long press 2 seconds.

When the reader through Micro USB connect to PC, can using Bluetooth work with Phone?

The bR301 only support one communication way at same time.

When the white light will turn on?

The white light turn on means the card has powered by reader. White light means communication status.

How to charge to bR301?

You can through Micro USB cable to connect with your PC to do charge.

How can I know the battery has charge full?

When the bR301 low battery, the yellow light will turn on, and you can using micro usb to connect reader to PC to do charge, the red light will turn on. After

Who can I contact for support?

If you have any questions, feel free contact ben@ftsafes.com

How to make one application to support iR301 and bR301?

At first, please confirm your bR301 has upgrade to v1.45.

The iR301 iOS SDK already integrated bR301 functions, all the bR301 APIs is same iR301 API.

The only small change is add external protocol string “com.ftsafe.bR301” to your Info.plist file.

So if your application only works for bR301, please using bR301 library to do integrated.

If you application work with iR301 and bR301, please using iR301 library to do integrated.

Does the FEITIAN SDK support background running?

Yes, to support background running, the first, you need add background support in your Info.plist.

How to OEM bR301, like case and firmware?

As MFi has new standard, to do OEM, must be sign OEM agreement with FEITIAN at first.