



USB UART Android Application

User's Manual

Introduction

This user's manual is for version 1C of the USB UART Android App. This version has support for the Exar USB UARTs listed in Table 1 below.

Table 1: Exar USB UARTs Supported

Exar USB UART
XR21B1411
XR21V1410
XR21V1412
XR21V1414
XR21B1420
XR21B1422
XR21B1424
XR22801
XR22802
XR22804

System Requirements

These are the minimum requirements to test the Android App:

- Device or system running Android OS version 3.1 (Honeycomb) or newer
- USB OTG or USB host port on Android device or system
- USB OTG cable (if using USB OTG port)
- USB host mode drivers installed in Android OS
- USB peripheral board/system with supported Exar USB UART

Installation

Before the application can be installed on an Android device, the security settings may need to be updated. In the security menu, place a check mark next to “Unknown Sources” to allow installation of the Exar USB UART Android App. See Figure 1.

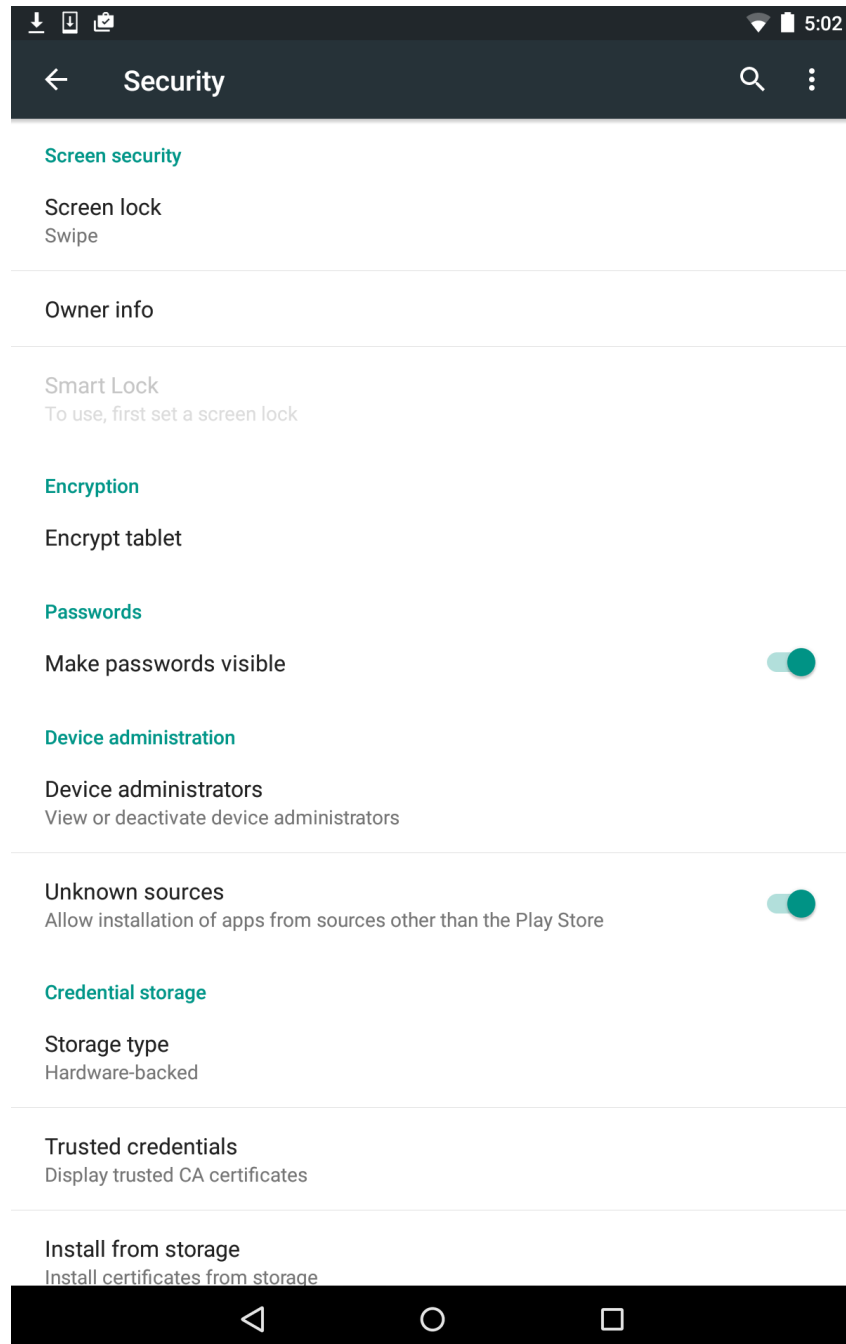


Figure 1: Allow Installation of Unknown Sources

Then double-click on the APK file to install the Exar USB UART Android App.

Application Overview

This section describes the different settings/features in the Android Application when the USB UART is plugged into the USB port and the application is connected to one channel of the USB UART. The screenshot below is for the XR21B1411 USB UART.

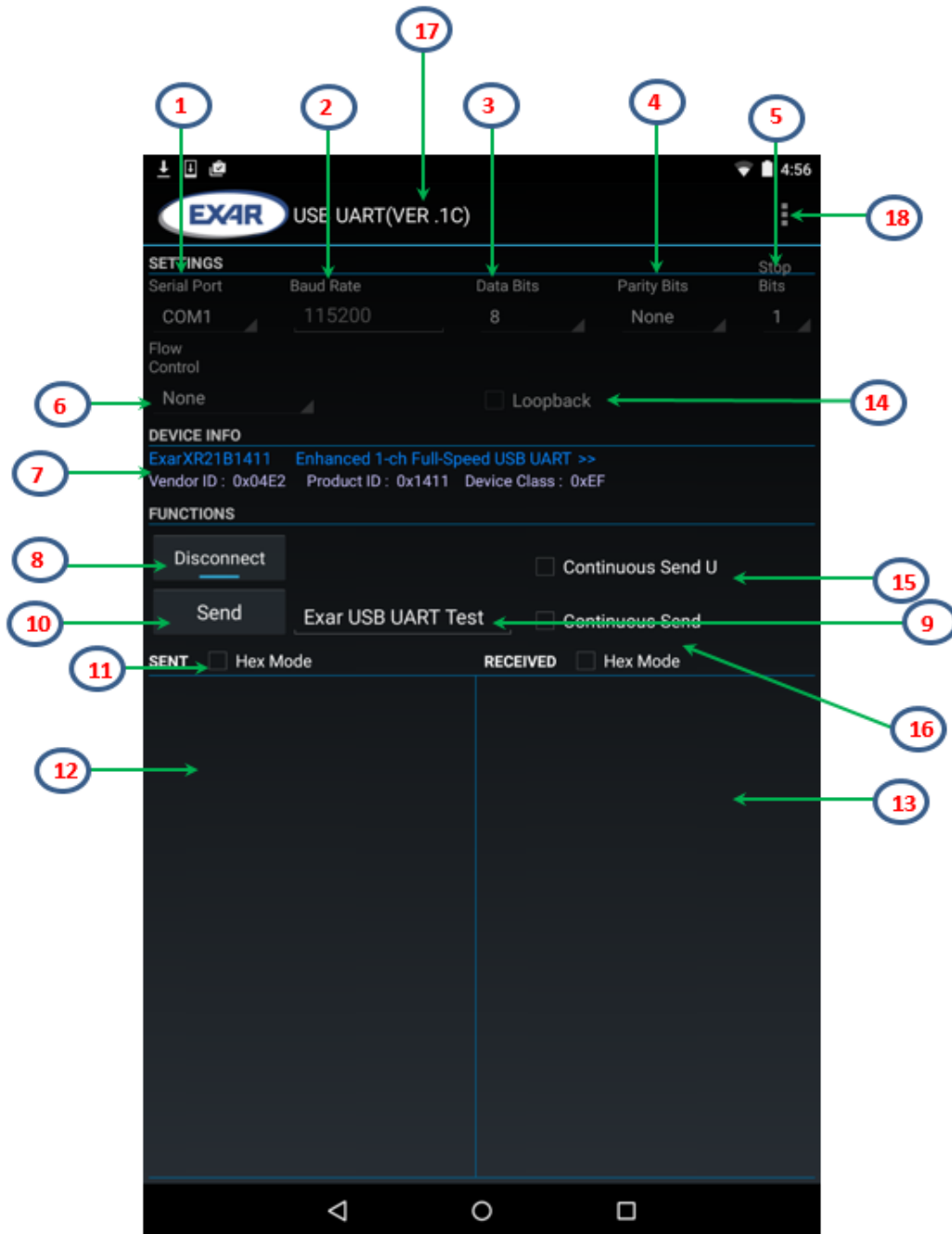


Figure 2: Android Application Screenshot

The description for each of the numbered items above are described in the table on the following page.

Table 2: Android Application Item Descriptions

Item	Name	Description
1	Serial Port	Selects the channel number. COM1 = channel A, COM2 = channel B, COM3 = channel C, COM4 = channel D.
2	Baud Rate	Selects the baud rate. Baud rates can be selected from pull-down options or can be manually typed in.
3	Data Bits	Selects the number of data bits - 5, 6, 7 or 8. Note that not all USB UART devices support 5 and 6 bits data.
4	Parity Bit	Selects the parity mode - none, odd, even, mark, space.
5	Stop Bits	Selects the number of stop bits - 1 or 2.
6	Flow Control	Selects the flow control mode - none, hardware, software, Auto RS-485 Half-Duplex control.
7	Device Info	Displays the USB device information such as Manufacturer's Name, Product Name, Product Description, Vendor ID, Product ID and Device Class.
8	Connect/Disconnect	After plugging in the Exar USB UART to the Android device or system, click on this button to connect or disconnect the Exar USB UART.
9	Data String	This is the data string that is transmitted when clicking on send. This string can be edited.
10	Send	Sends the data string to be transmitted by the USB UART.
11	Hex Mode	By default, ASCII data is displayed in both the transmit and receive windows. Placing a check box will display the data in hex format in both the transmit and receive windows.
12	Sent	This window displays the data that was sent from the application to the device to be transmitted.
13	Received	This window displays the data that was received by the application.
14	Loopback	Enables/disables the internal loopback mode.
15	Continuous Send U	"U" will be sent continuously when placing a check mark in this box.
16	Continuous Send	The "Data String" (item 9) will be continuously sent from the application to the Exar USB UART.
17	Version Number	Displays the version of the GUI - version 1B.
18	Additional Options	Provides a "Send File" option and "Register Read/Write" option.

Technical Support

Send your technical inquiries, including requests for the Android Application source files to UARTtechsupport@exar.com.

Revision History

Revision	Date	Description
1A	September 2014	User's manual for Exar USB UART Android Application version 1B.
1C	November 2015	User's manual for Exar USB UART Android Application version 1C. Skipped Rev 1B so that user's manual version matches Android Application version. Added support for XR2280x USB UARTs.

For Further Assistance:

Email: UARTtechsupport@exar.com

Exar Technical Documentation: <http://www.exar.com/techdoc/>

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