EX-1305
USB Host to Android RS232 Adapter Cable w/ DB9 Male Connector

1. Introduction

Thank you for purchasing this USB Host to RS232 Adapter Cable (the "Adapter Cable"). It is designed specifically to support Android Open Accessory protocol. The Adapter Cable connects to a USB device on the Android platform, establishes the USB connection, enumerates Open Accessories, and then provides a bridge from the USB host port to a UART interface. All necessary USB and Android Open Accessory protocol is incorporated in the chip built-in the Adapter Cable, so that users can quickly and easily establish a USB connectivity link and have a basic UART (RXD, TXD, RTS, and CTS signals) interface for their applications.

Android Open Accessory Protocol is supported in Android Honeycomb (3.1) and later versions, with the benefit that data can be transmitted and received without additional driver support.

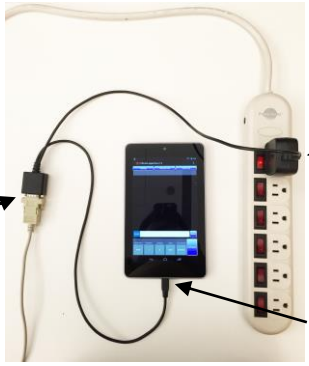
2. Connector Layout

Features:

- ✓ **Provides 1 RS232 Serial Port over USB Host Port**
- ✓ **Provides Power Source to the Android Device via the Y-Cable Configuration**
- ✓ **Supports Battery Charging the Android Device with SDP (Standard Downstream Port) Mode**
- ✓ **Easy Serial Port Expansion for Android Devices**
- ✓ **Supports UART Signals: TXD, RXD, RTS and CTS**
- ✓ **Provides General HyperTerm UART Utility Apps;**
  Easily Adaptable to a Console Function:
  - **Supports CTS/RTS Flow Control**
  - **Baud from 300 to 921600 With CTS/RTS Flow Control**
  - **Baud from 300 to 115200 Without Flow Control**
  - **Save File and Send File Functions**
- ✓ **Provides 1 Nut-type DB9-Male Connector**
- ✓ **Supports Android Platform Supporting Android Open Accessory Mode (version 3.1 onwards and some v2.3.4)**

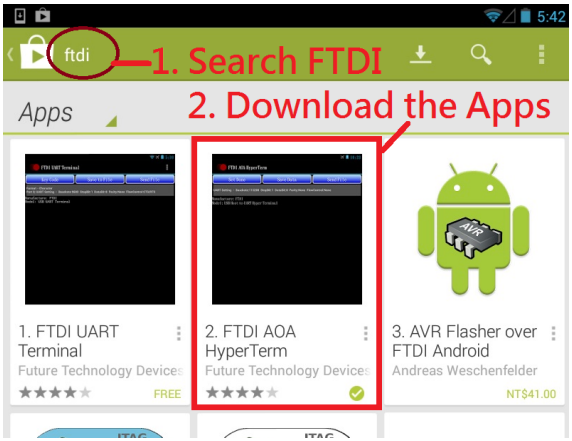
3. Installing the Adapter Cable

1. Connect the Micro-USB end of the Adapter Cable to your Android Device's Charging/USB connector.
2. Plug the USB Type-A end of the Adapter Cable into the USB Battery Charging Adapter (not shipped with the Adapter Cable, should have come with your Android Device)
3. Connect the RS232 Serial Device to the DB9 male connector of the Adapter Cable by a Serial Cable.

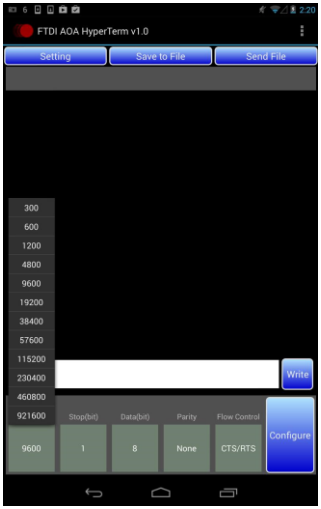


4. Installing Drivers

The software drivers of the Adapter Cable are on the Google Play. Please search "FTDI" keyword and install the Apps shown as the following screenshot.

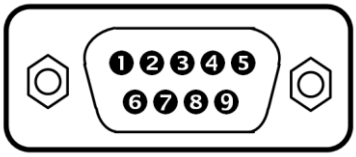


Along with the Apps download is a useful utility called FTDI AOA Hyper Term. You can perform all tests for the serial functions including changing settings, sending characters and receiving characters.



← **FTDI AOA Hyper Term Utility**

5. Male DB9 Pin Assignments and Cable Wiring



9 Pins	Signal
1	NC
2	RXD
3	TXD
4	NC
5	GND
6	NC
7	RTS
8	CTS
9	NC

*NC: No Connection

DB9(Male) to DB9(Male) Wiring

DB9(Adapter Cable)	DB9(Serial Device)
1 NC	1 NC
2 RXD	2 RXD
3 TXD	3 TXD
4 NC	4 NC
5 GND	5 GND
6 NC	6 NC
7 RTS	7 RTS
8 CTS	8 CTS

6. Environmental Specifications

Power requirements: 5V DC, 135mA (max)

Operating temperature: 0 to 558C (32 to 1318F)

Operating humidity: 5 to 95% RH