UTS-USBC-RJ45-A

USB-C to 1-Port RS-232 Converter (RJ45) Console Cable



Quick Start Guide

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www.antaira.com

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FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device must not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This document is the current official release quick start guide. Please check our website (www.antaira.com) for any updated manual or contact us by e-mail (support@antaira.com).

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1 Overview

Antaira Technologies' USB-C to RJ45 Console Cable connects from a computer USB port to the RJ45 console port of a networking switch. This cable connects a computer with Windows or macOS to a Antaira serial console port for configuration and management. The integrated FTDI chipset handles the USB signaling and protocol functions including an RS-232 level shifter. FTDI drivers are available for download.

2 Installation Checklist

- Computer with an available USB-C port (USB 3.0) supporting data transfer
- Administrator permission on the computer to install the FTDI drivers
- Internet access to download the drivers
- Windows users may need to identify the 32-bit or 64-bit system type to install the correct drivers (System Control Panel > System)
- Verify that the equipment console port is wired according to the Cisco standard. Below is the pinout of this rollover cable that reverses the pins of the console port:

RJ45 Pin#	1	2	3	4	5	6	7	8
Signal	No Conductor	No Conductor	No Conductor	GND	TXD	RXD	No Conductor	No Conductor

3 Quick Connect Notes

FTDI drivers should automatically install when connected to a computer with Windows 10.

1. Plug the USB end of the cable into an available USB port on the computer.
2. Identify the connected COM port assigned by the computer.
3. Open a terminal window with a Command Line Interface (CLI) terminal utility or terminal emulation software such as PuTTY).
4. Plug the RJ45 end of the cable into the console port and turn on the equipment.
5. Set the bps, data bits, parity, stop bits and flow control settings required by the equipment.
   (Typical Antaira settings are bps=115200 / data bits=8 / parity=none I stop bit=1 / flow control=none)

4 Windows OS FTDI Driver Installation

Note: Plug the cable into a USB port to download the drivers automatically. Follow the instructions below if the drivers do not download.

1. Install the drivers from antaira.com
    - FTDI drivers may be installed with the Windows 10 Update
    - View 32-bit or 64-bit Windows system type in the Control Panel > System
2. Reference the FTDI driver installation guides on the download for more detailed and advanced information when installing the WHQL certified Windows drivers
3. Reboot your computer after the drivers are installed
4. Connect the cable to an available USB port on the computer
   (Limit the total cable length to 15 feet when connecting with a USB extension cable)
5. Check to see if your computer recognizes the cable:
    - Search Control Panel> Device Manager> Ports (Com & LP1) > USB Serial Port (COM XX)
    - Your computer will assign the next available COM port number
    - Right-click on the port, select Properties and check for FTDI under the General tab
    - A yellow warning triangle indicates a driver problem. Right click on the port and select Update driver.

5 Connecting to the Equipment with a Windows Computer

1. Identify the COM port assigned by the computer (see above).
2. Plug the USB end of the cable into an available USB port on the computer.
3. Open a terminal window with a Command Line Interface (CLI) terminal utility (HyperTerminal in Windows 7 or 8) or downloadable terminal emulation software such as PuTTY).
4. Select Serial as the connection type in the terminal emulation software.
5. Plug the RJ45 end of the cable into the console port and turn on the equipment.
6. Set the bps, data bits, parity, stop bits and flow control settings required by the equipment.
   (Typical Antaira settings are bps=115200 / data bits=8 / parity=none I stop bit=1 / flow control=none)
7. Consult the equipment documentation for programming the equipment.

6 macOS FTDI Driver Installation & Equipment Connection

1. Install the drivers from antaira.com
2. Reference the FTDI driver installation guides on the CD for more detailed and advanced information.
3. Reboot your computer after the drivers are installed.
4. Connect the cable to an available USB port on the computer. (Limit the cable length to 15 feet when connecting with a USB extension cable.)
5. Plug the RJ45 end into the console port and power-on the equipment
6. Open a terminal window by selecting Go> Applications> Utilities> Terminal
7. Enter the following commands to find the assigned USB port number:
   - MacBook: user$ cd ldev
   - MacBook: user$ Is -ltr ldev/'usb'
   - Crw-rw-rw- 1 root wheel x, xx Month Date 00:00 Idevltty.usbserial-00000000 (port# is listed here)
8. Consult the equipment documentation for programming the equipment.

Note: How to verify that your computer recognizes the cable:

About this Mac > System Report > Hardware > USB Device Tree > USB 3.0 Bus > FT232R USB UART

Check for FTDI (Future Technology Devices International Limited) under the Vendor ID

7 Troubleshooting Notes

- This is a custom Antaira cable that is designed to be used on Antaira managed switches to connect from a computer to a switch. It is NOT a crossover cable that reverses TX and RX to connect two computers.
- Check that the RJ45 is connected to the console Port, not an aux or an Ethernet port. Only 1 console port can be connected at a time.
- Disconnect any network or internet access as a test.
- If you are unsure of the assigned COM port:
  1. Connect the cable to a USB port
  2. Open the Device Manager in Windows or the USB Device Tree in macOS
  3. Unplug the cable and note which entry disappears
- Connecting with a long USB extension cable may cause the console functions to operate incorrectly. A maximum length of 15 feet is recommended.
- Older FTDI or Prolific drivers may need to be uninstalled in order to install the latest FTDI drivers. Uninstall the drivers, plug-in the cable, and reinstall the drivers.(Consult the FTDI Driver Installation Guides on the CD for detailed instructions).

- Disable the scroll lock key on the keyboard, if equipped.
- Verify that the USB-A or USB-C port supports data transfer from the host computer.