

Advantech AE Technical Share Document

Date	2020 / 04 / 06	Release Note	<input checked="" type="checkbox"/> Internal <input type="checkbox"/> External
Category	<input checked="" type="checkbox"/> FAQ <input type="checkbox"/> SOP	Related OS	Linux
Abstract	FAQ_RS-485 driver (Linux) for ITA-8100 and ITA-8120		
Keyword	Linux, RS-485		
Related Product	ITA-8100, ITA-8120		

■ **Step 1: Unbind Linux default driver**

Unbind Linux’s default COM driver completely.

■ **Step 2: Download latest XR17 driver**

Download the latest XR17 driver from <https://www.maxlinear.com/support/design-tools/software-drivers>.

PCIe UART	XR17V352, XR17V354, XR17V358	Windows 10	5.4.0.0	June 2017
		Windows XP, Vista, 7, 8, 8.1	5.3.0.0	September 2015
		Linux 2.6.32 and newer	2.6.0.0	August 2019
		Linux 2.6.31	1.1.0	February 2010
		Linux 2.6.27	1.0.0	November 2009

■ **Step 3: Edit driver to enable RS-485**

Edit driver code ‘**xr17v35x.c**’ downloaded from Step 1.

Find a parameter called ‘**ENABLE_RS485**’ in Line 150 and set it to ‘**1**’.

(Additional option)

If DTR is used (instead of RTS), please set ‘**USE_DTR_RS485**’ to **1** in Line 152.

■ **Step 4: Rebuild driver and install in system**

Bind the driver and install it in ITA-8100/ITA-8120.