

Linux Driver Installation Guide

Installation

Note Elevated privileges are needed for this installation. It may be necessary to provide the administrative credentials for the computer.

- 1. Open a **Terminal Window** and type the following commands one after the other.
 - a. sudo apt-get install make
 - b.sudo apt-get install linux-source
 - c. sudo apt-get install build-essential
 - d.sudo apt-get install gcc-multilib
 - e. sudo apt-get install linux-headers-(\$uname-r)
 - f. sudo ln -s /usr/include/asm-generic
 - g.sudo apt-get update
 - h.sudo apt-get upgrade
- 2. Exit the Terminal Window.
- 3. Extract the **Driver** to a **Folder** of choice.
- 4. Open a **Terminal Window** and **Navigate** to the **Folder** where the **Driver** has been extracted. Type the following commands one after the other.
 - a. sudo -s
 - b.make
 - c. make install
- 5. Exit the Terminal Window.
- 6. Launch a new **Terminal Window** that is not rooted in the **Driver Folder**. Type the following commands one after the other.
 - a. sudo modprobe -r parport_pc
 - b.sudo Ispci -v

Note Ispci should now show a controller similar to "01:00.2 Parallel controller: Asix Electronics Corporation AX99100 PCIe to Multi I/O Controller." Figure 1.

```
02:00.2 Parallel controller: Asix Electronics Corporation AX99100 PCIe to Multi I/O Controller (prog-if 03 [IEEE1284])
Subsystem: Asix Electronics Corporation (Wrong 1D) Parallel Port
Plags: bus master, fast_devset, latency 0, IRQ 11
1/O ports at d010 [size=8]
1/O ports at d000 [size=8]
Remory at_e181800 (27-51t, non-prefetchable) [size=4K]
Memory at_e181800 (27-51t, non-prefetchable) [size=4K]
Capabilittes: [50] MSI: Enable Count=1/8 Maskable 64blt+
Capabilittes: [78] Power Management version 3
Capabilittes: [80] Express Legacy Endpoint, MSI 00
Capabilittes: [80] Express Legacy Endpoint, MSI 00
Capabilittes: [80] Express Legacy Endpoint, MSI 00
```

Figure 1

- c. The next command will require the I/O Port Memory Address depicted in Figure 1 with 0x added to the start of the address. E.g. if the I/O Port is stated to be at address d010, the address used for the next command would be 0xd010.
- d.sudo modprobe parport_pc io=0xd010

Note 0xd010 is the first I/O Port Memory Address from step 6b.

7. The Parallel Port should now appear as an Ip port in /dev/.