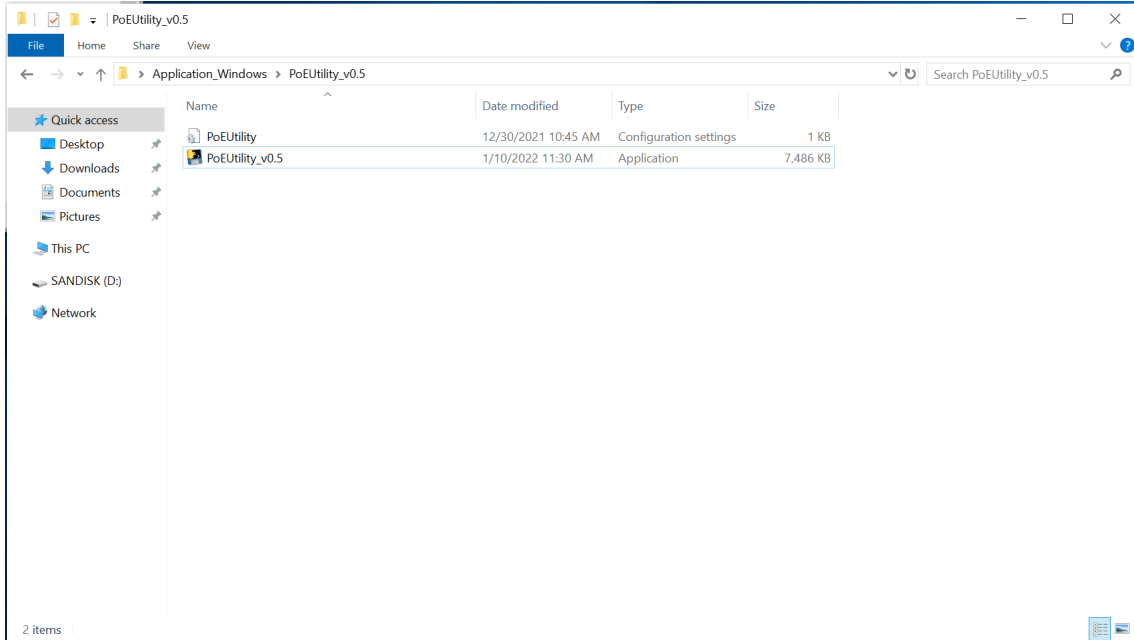


POE Utility User Guide

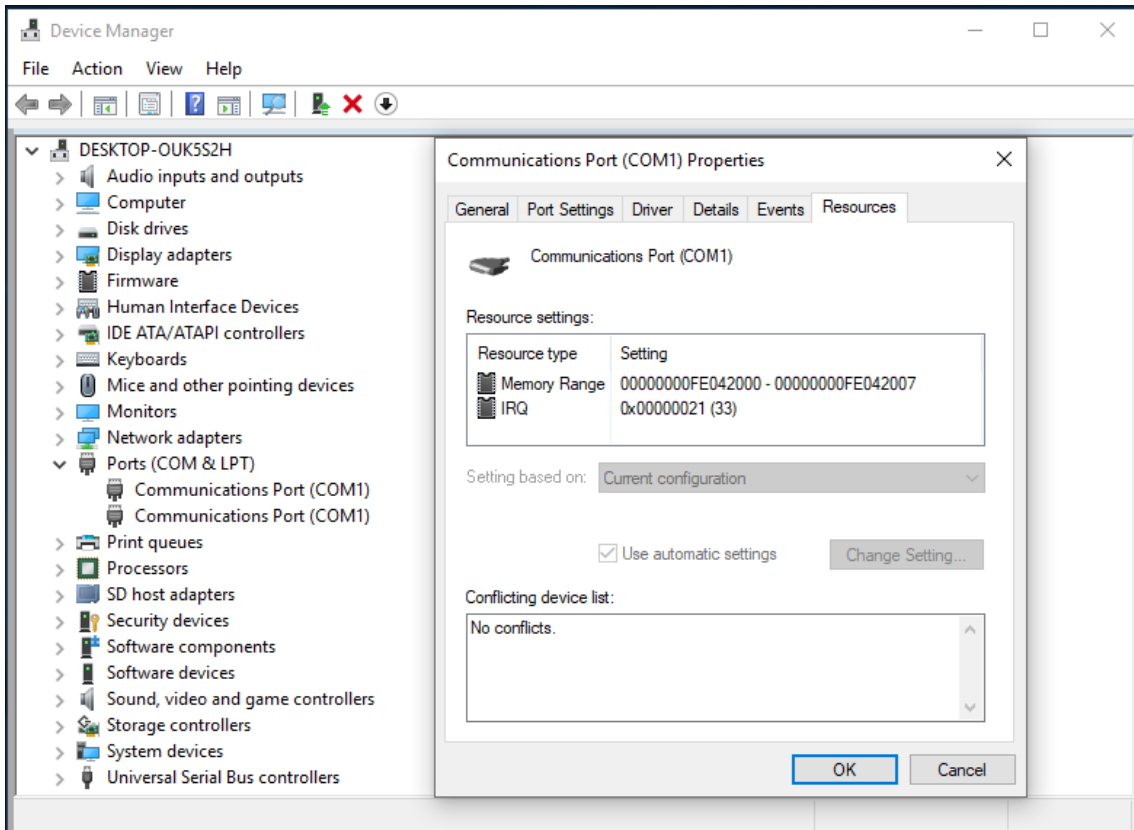
Version	PoEUtility_v0.5
Model	NViS1482/NViS14162
MCU version	000.1.3.1 / 000.1.3.2
Document Revision	v. 1.0.1_20220127

1. Windows

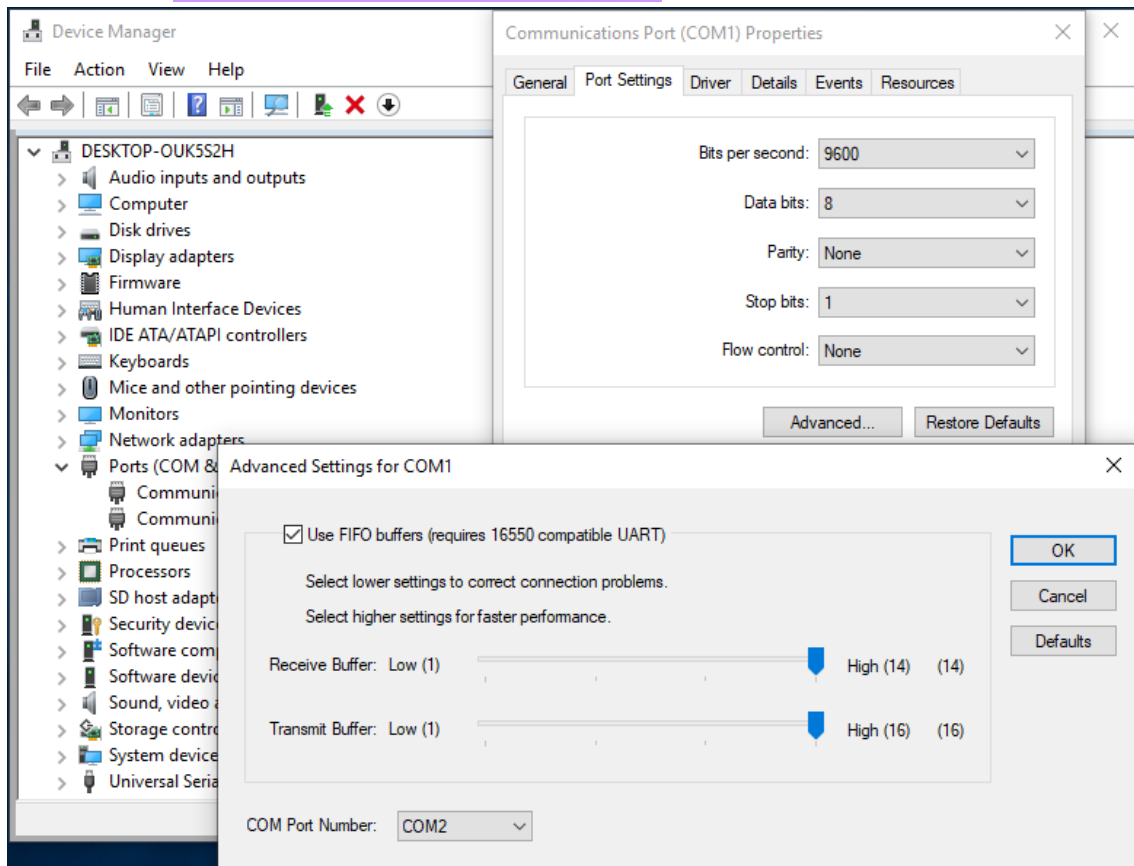
1.1 Copy Application Windows to desktop



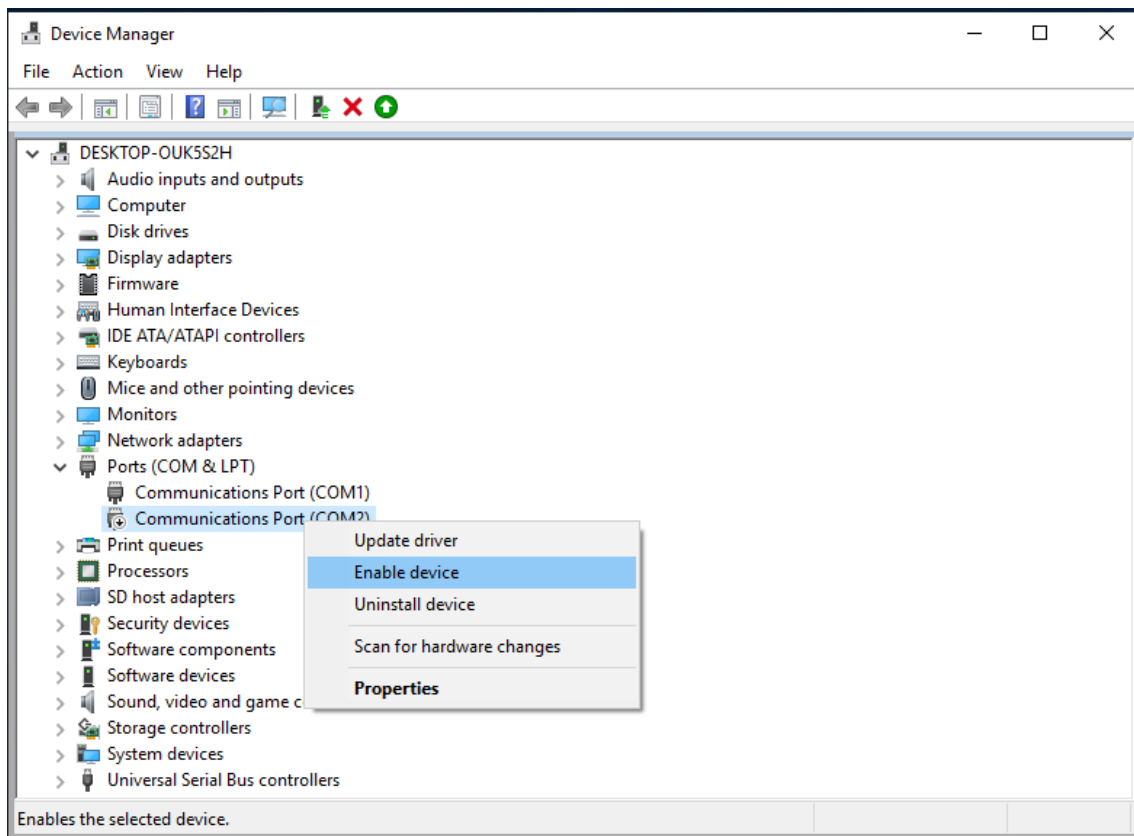
1.2 Execute Device Manager.



1.3 Change COM port number manually

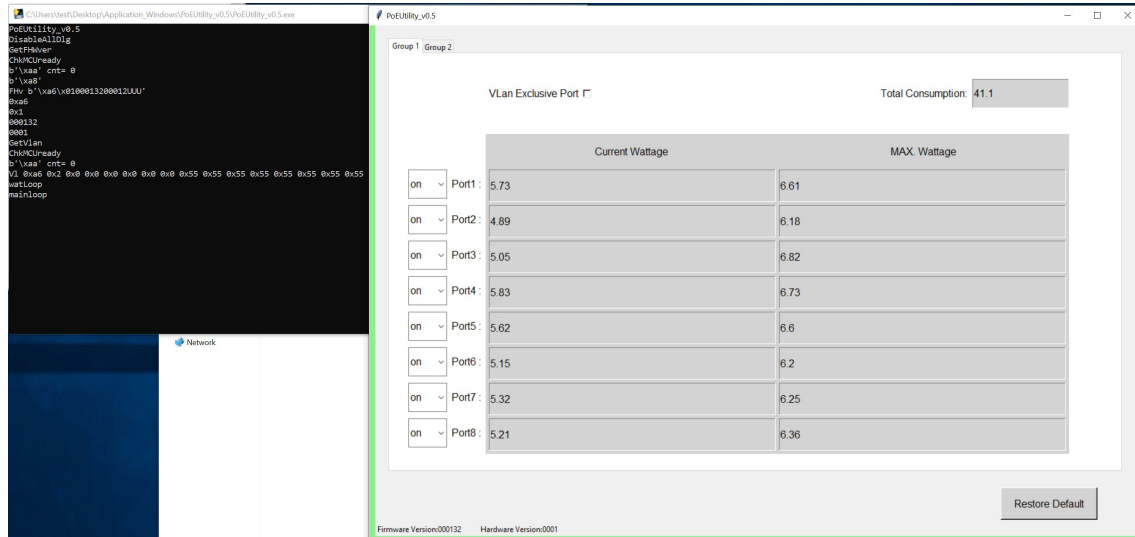


1.4 Disable then Enable again



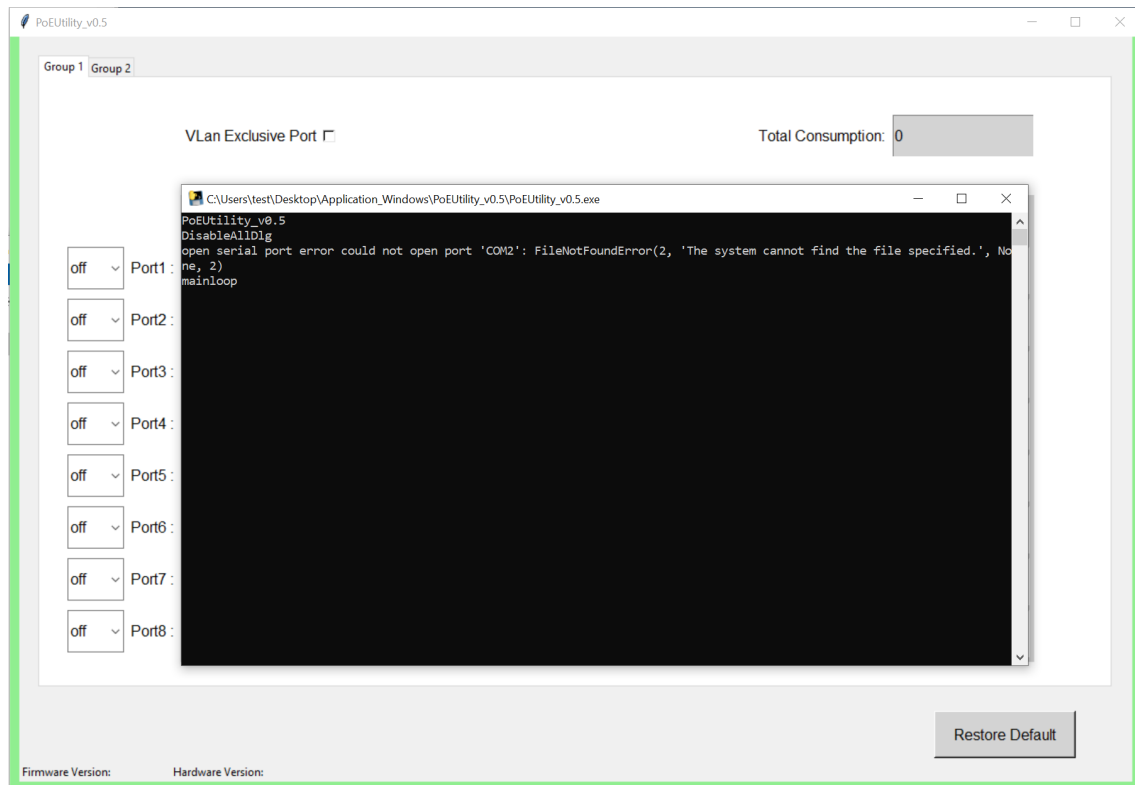
1.5 Execute PoEUtility v0.5

Once succeed, you will see Firmware version and Hardware version on bottom of GUI, also if you had connected cameras or other POE devices, you will get power usage for each ports.



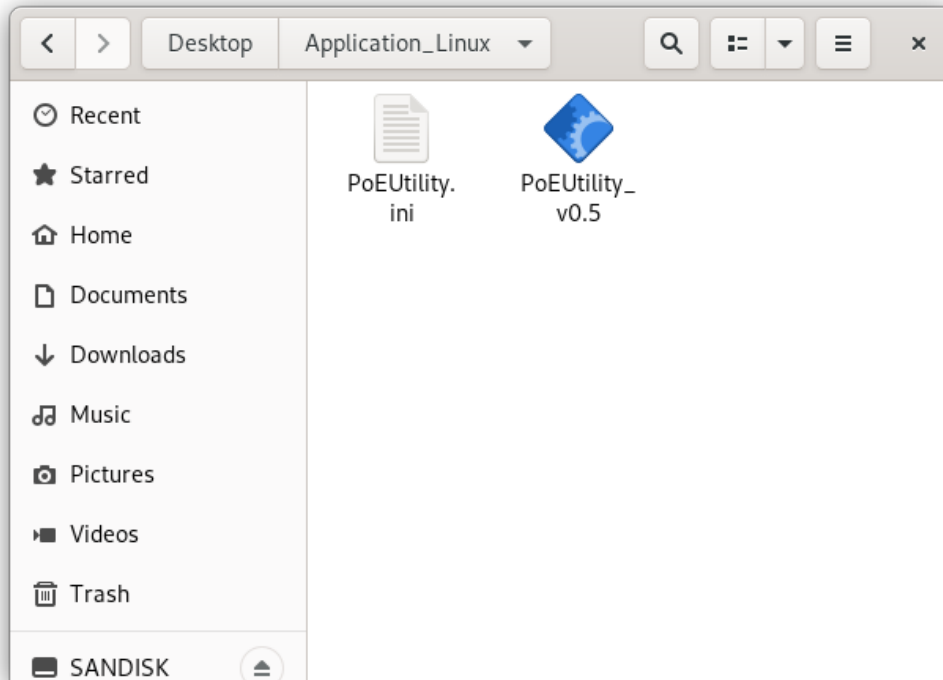
1.6 Exception

If you can't see Firmware Version and Hardware Version on GUI, please check error message in console and make sure your COM port settings is correct.



2. Linux

1.1 Copy Application Linux to desktop



1.2 Check device group type in terminal

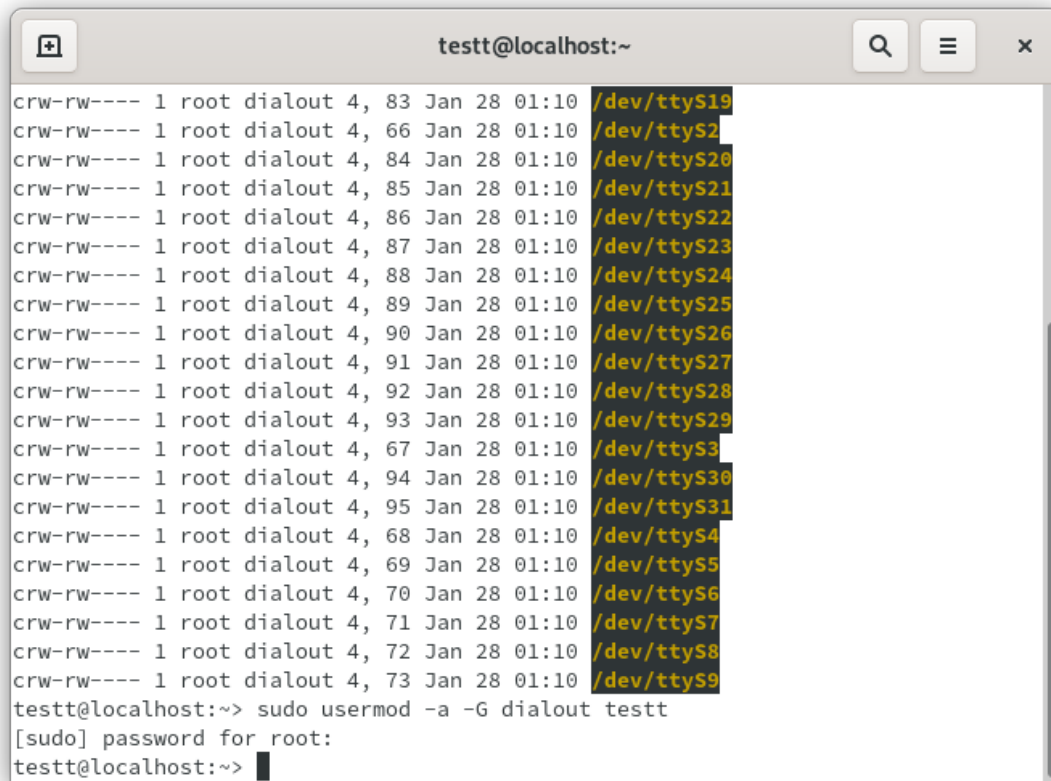
Enter `ls -al /dev/ttyS*` in terminal.

```
testt@localhost:~  
crw-rw---- 1 root dialout 4, 81 Jan 28 01:10 /dev/ttyS17  
crw-rw---- 1 root dialout 4, 82 Jan 28 01:10 /dev/ttyS18  
crw-rw---- 1 root dialout 4, 83 Jan 28 01:10 /dev/ttyS19  
crw-rw---- 1 root dialout 4, 66 Jan 28 01:10 /dev/ttyS2  
crw-rw---- 1 root dialout 4, 84 Jan 28 01:10 /dev/ttyS20  
crw-rw---- 1 root dialout 4, 85 Jan 28 01:10 /dev/ttyS21  
crw-rw---- 1 root dialout 4, 86 Jan 28 01:10 /dev/ttyS22  
crw-rw---- 1 root dialout 4, 87 Jan 28 01:10 /dev/ttyS23  
crw-rw---- 1 root dialout 4, 88 Jan 28 01:10 /dev/ttyS24  
crw-rw---- 1 root dialout 4, 89 Jan 28 01:10 /dev/ttyS25  
crw-rw---- 1 root dialout 4, 90 Jan 28 01:10 /dev/ttyS26  
crw-rw---- 1 root dialout 4, 91 Jan 28 01:10 /dev/ttyS27  
crw-rw---- 1 root dialout 4, 92 Jan 28 01:10 /dev/ttyS28  
crw-rw---- 1 root dialout 4, 93 Jan 28 01:10 /dev/ttyS29  
crw-rw---- 1 root dialout 4, 67 Jan 28 01:10 /dev/ttyS3  
crw-rw---- 1 root dialout 4, 94 Jan 28 01:10 /dev/ttyS30  
crw-rw---- 1 root dialout 4, 95 Jan 28 01:10 /dev/ttyS31  
crw-rw---- 1 root dialout 4, 68 Jan 28 01:10 /dev/ttyS4  
crw-rw---- 1 root dialout 4, 69 Jan 28 01:10 /dev/ttyS5  
crw-rw---- 1 root dialout 4, 70 Jan 28 01:10 /dev/ttyS6  
crw-rw---- 1 root dialout 4, 71 Jan 28 01:10 /dev/ttyS7  
crw-rw---- 1 root dialout 4, 72 Jan 28 01:10 /dev/ttyS8  
crw-rw---- 1 root dialout 4, 73 Jan 28 01:10 /dev/ttyS9  
testt@localhost:~>
```

1.3 Add current user to the groups which showed on previous steps

Enter `sudo usermod -a -G dialout [username]` in terminal.

**testt is the current username in this capture.*



```
testt@localhost:~  
crw-rw---- 1 root dialout 4, 83 Jan 28 01:10 /dev/ttyS19  
crw-rw---- 1 root dialout 4, 66 Jan 28 01:10 /dev/ttyS2  
crw-rw---- 1 root dialout 4, 84 Jan 28 01:10 /dev/ttyS20  
crw-rw---- 1 root dialout 4, 85 Jan 28 01:10 /dev/ttyS21  
crw-rw---- 1 root dialout 4, 86 Jan 28 01:10 /dev/ttyS22  
crw-rw---- 1 root dialout 4, 87 Jan 28 01:10 /dev/ttyS23  
crw-rw---- 1 root dialout 4, 88 Jan 28 01:10 /dev/ttyS24  
crw-rw---- 1 root dialout 4, 89 Jan 28 01:10 /dev/ttyS25  
crw-rw---- 1 root dialout 4, 90 Jan 28 01:10 /dev/ttyS26  
crw-rw---- 1 root dialout 4, 91 Jan 28 01:10 /dev/ttyS27  
crw-rw---- 1 root dialout 4, 92 Jan 28 01:10 /dev/ttyS28  
crw-rw---- 1 root dialout 4, 93 Jan 28 01:10 /dev/ttyS29  
crw-rw---- 1 root dialout 4, 67 Jan 28 01:10 /dev/ttyS3  
crw-rw---- 1 root dialout 4, 94 Jan 28 01:10 /dev/ttyS30  
crw-rw---- 1 root dialout 4, 95 Jan 28 01:10 /dev/ttyS31  
crw-rw---- 1 root dialout 4, 68 Jan 28 01:10 /dev/ttyS4  
crw-rw---- 1 root dialout 4, 69 Jan 28 01:10 /dev/ttyS5  
crw-rw---- 1 root dialout 4, 70 Jan 28 01:10 /dev/ttyS6  
crw-rw---- 1 root dialout 4, 71 Jan 28 01:10 /dev/ttyS7  
crw-rw---- 1 root dialout 4, 72 Jan 28 01:10 /dev/ttyS8  
crw-rw---- 1 root dialout 4, 73 Jan 28 01:10 /dev/ttyS9  
testt@localhost:~> sudo usermod -a -G dialout testt  
[sudo] password for root:  
testt@localhost:~>
```

1.4 Reboot OS to apply changes

***Recently there is a resolution bug on opensuse, you may press Del to enter BIOS menu then press ESC to exit without changes to change resolution from 800*600 to 1024*768.*

1.5 Check current user group

Enter `groups` in terminal to check current user account has been added to dialout group.

```

testt@localhost:~
testt@localhost:~> groups
users dialout
testt@localhost:~> █
    
```

1.6 Execute PoEUtility v0.5

Enter `cd /home/[username]/Desktop/Application_Linux/` in terminal.

Enter `./PoEUtility_v0.5` in terminal to launch PoEUtility.

Once succeed, you will see Firmware version and Hardware version on bottom of GUI, also if you had connected cameras or other POE devices, you will get power usage for each ports.

```

testt@localhost:~/Application_Linux
testt@localhost:~> groups
users dialout
testt@localhost:~> cd /home/testt/Desktop/Application_Linux/
testt@localhost:~/Desktop/Application_Linux> ./PoEUtility
PoEUtility.ini  PoEUtility_v0.5
testt@localhost:~/Desktop/Application_Linux> ./PoEUtility_v0.5
PoEUtility_v0.5
DisableAllDlg
GetFWHver
ChkMCUready
b'\xaa' cnt= 0
b'\xa8'
FHv b'\xa6\x0100013200012UUU'
0xa6
0x1
000132
0001
GetVlan
ChkMCUready
b'\xaa' cnt= 0
Vl 0xa6 0x2 0x0 0x0 0x0 0x0 0x0 0x0 0x55 0x55 0x55 0x55 0x55 0x55 0x55
watLoop
mainloop
wL 0xa6 0x3 0xff 0x99 0x99 0x0 0x0 0x0 0xd7 0x4 0xb0 0x55 0x55 0x55 0x55
    
```

PoEUtility_v0.5

Group 1 Group 2

Vlan Exclusive Port

Total Consumption: 19.8

	Current Wattage	MAX. Wattage
on Port1:	5.81	6.12
on Port2:		
on Port3:		
on Port4:	5.71	6.15
on Port5:	5.25	6.08
on Port6:		
on Port7:		
on Port8:	5.51	6.82

Restore Default

Firmware Version:00013 Hardware Version:0001