NECOM

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

■ 🖓 ■ = PoEUtility_v0.5 - □ ×									
File Home Share View 🗸									
$\leftarrow \rightarrow \cdot \cdot \uparrow \blacksquare \cdot$	\leftarrow \rightarrow \checkmark \uparrow] > Application_Windows > PoEUtility_v0.5 \checkmark U								
		Name	Date modified	Type	Size				
📌 Quick access									
Desktop	*	PoEUtility	12/30/2021 10:45 AM	Configuration settings	1 KB				
🖊 Downloads	*	POEUtility_v0.5	1/10/2022 11:30 AM	Application	7,486 KB				
Documents	*								
E Pictures	*								
S This PC								r	
								1	
SANDISK (D:)									
🔮 Network									
								ĺ	
2 items									

1.1 Copy Application Windows to desktop

1.2 Execute Device Manager.





🛃 Device Manager	Communications Port (COM1) Properties	××
File Action View Help	General Port Settings Driver Detaile Evente Recourses	
← → □	deneral concession biller betails Events hesolates	
DESKTOP-OUKSS2H	Bits per second: 9600 V	
Computer	Data hite: 8	
Disk drives		
Display adapters	Parity: None 🗸	
> Firmware		
> 🔤 Human Interface Devices	Stop bits: 1 V	
> 📹 IDE ATA/ATAPI controllers	Dur estat. N	
> 🥅 Keyboards	Flow control: None V	
> II Mice and other pointing devices		
> Monitors	Advanced Restore Defaults	
> 🚽 Network adapters		
✓ ₽ Ports (COM & Advanced Settings for COM1		×
Communi		
Use FIFO buffers (requires 1	16550 compatible UART)	
		ок
SD host adapt	rect connection problems.	ancel
Select higher settings for fas	ster performance.	
Software com	D	efaults
Software device Receive Buffer: Low (1)	High (14) (14)	
> 🕡 Sound, video :	_	
> 🏠 Storage contro 🛛 Transmit Buffer: Low (1)	High (16) (16)	
> 🏣 System device		
> 🏺 Universal Seria		
COM Port Number: COM2	~	

1.3 Change COM port number manually

1.4 Disable then Enalble again

📇 Device Manager	_		×					
File Action View Help								
V 🗄 DESKTOP-OUK5S2H								
> 👖 Audio inputs and outputs								
> 💻 Computer								
> 👝 Disk drives								
> 🏣 Display adapters								
> 📓 Firmware								
> 🛺 Human Interface Devices								
> 📷 IDE ATA/ATAPI controllers								
> Keyboards								
Mice and other pointing devices								
> Monitors								
> Preter (COM 8: LDT)								
✓ ■ Ports (COM & LPT) ■ Communications Det (COM1)								
Communications Port (COMI)								
Print queues Update driver								
Processors Enable device								
SD host adapters								
> Security devices								
> Software components Scan for hardware changes								
> Software devices								
> I Sound, video and game c								
> 🍇 Storage controllers								
> 🏣 System devices								
> 🏺 Universal Serial Bus controllers								
Enables the selected device.								

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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.

C\Users\test\Desktop\Application_Windows\PoEUtility_v0.5\PoEUtility_v0.5.exe	PoEUtility_v0.5		-	
PedUtility, v0.5 PedUtility GetFAvve (P/Use)	Group 1 Group 2	VLan Exclusive Port I"	Total Consumption: 41.1	
GetVlan ChWCUready H'yya'rota 0		Current Wattage	MAX. Wattage	
√1 6xa6 6x2 0x0 0x0 0x0 0x0 0x0 0x0 0x55 0x55 0x5	on ~ Port1 :	5.73	6.61	
	on v Port2 :	4.89	6.18	
	on v Port3 :	5.05	6.82	
	on ~ Port4 :	5.83	6.73	
😻 Network	on v Port5 :	5.62	6.6	
	on v Port6 :	5.15	6.2	
	on v Port7 :	5.32	6.25	
	on ~ Port8 :	5.21	6.36	
	Firmware Version:000132	lardware Version:0001	Restore Defa	ult

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.

	VLan Exclusive Port □	Total Consumption: 0
	C:\Users\test\Desktop\Application_Windows\PoEUtility_v0.5\PoEUtility_v0.5.exe	×
off ~ Port1	DisableAllDlg open serial port error could not open port 'COM2': FileNotFoundErr ne, 2) mainloop	vor(2, 'The system cannot find the file specified.', No
off ~ Port2		
off ~ Port3		
off ~ Port4		
off ~ Port5		
off ~ Port6		
off ~ Port7		
off ~ Port8		, ✓.

<u>2. Linux</u>

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< > Desktop	Application_Linux	•	Q ः ▼ ≡ ×
⊘ Recent			
🚖 Starred	PoEUtility.	PoEUtility_	
🔂 Home	INI	VU.5	
Documents			
↓ Downloads			
J Music			
Pictures			
🛏 Videos			
🔟 Trash			
SANDISK			

1.1 Copy Application Linux to desktop

1.2 <u>Check device group type in terminnal</u> Enter *Is -al /dev/ttyS** in terminal.

						tes	stt@	localho	st:~	٩	Ξ	×
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			- 1
crw-rw	1	root	dialout	4,	88	Jan	28	01:10	/dev/ttyS24			- 1
crw-rw	1	root	dialout	4,	89	Jan	28	01:10	/dev/ttyS25			- 1
crw-rw	1	root	dialout	4,	90	Jan	28	01:10	/dev/ttyS26			- 1
crw-rw	1	root	dialout	4,	91	Jan	28	01:10	/dev/ttyS27			- 1
crw-rw	1	root	dialout	4,	92	Jan	28	01:10	/dev/ttyS28			- 1
crw-rw	1	root	dialout	4,	93	Jan	28	01:10	/dev/ttyS29			- 1
crw-rw	1	root	dialout	4,	67	Jan	28	01:10	/dev/ttyS3			- 1
crw-rw	1	root	dialout	4,	94	Jan	28	01:10	/dev/ttyS30			- 1
crw-rw	1	root	dialout	4,	95	Jan	28	01:10	/dev/ttyS31			- 1
crw-rw	1	root	dialout	4,	68	Jan	28	01:10	/dev/ttyS4			- 1
crw-rw	1	root	dialout	4,	69	Jan	28	01:10	/dev/ttyS5			- 1
crw-rw	1	root	dialout	4,	70	Jan	28	01:10	/dev/ttyS6			- 1
crw-rw	1	root	dialout	4,	71	Jan	28	01:10	/dev/ttyS7			- 1
crw-rw	1	root	dialout	4,	72	Jan	28	01:10	/dev/ttyS8			- 1
crw-rw	1	root	dialout	4,	73	Jan	28	01:10	/dev/ttyS9			- 1
testt@loca	lho	st:~:	>									

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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:~	Q = ×
crw-rw 1 root dialout 4, 83	Jan 28 01:10 /dev/ttyS19	
crw-rw 1 root dialout 4, 66	Jan 28 01:10 <mark>/dev/ttyS2</mark>	
crw-rw 1 root dialout 4, 84	Jan 28 01:10 <mark>/dev/ttyS20</mark>	
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.





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 Q =	×
testt@localhost:~> groups	
users dialout	- 88
testt@localhost:~> cd /home/testt/Desktop/Application_Linux/	- 88
testt@localhost:~/Desktop/Application_Linux> ./PoEUtility	- 88
PoEUtility.ini PoEUtility_v0.5	
testt@localhost:~/Desktop/Application_Linux> ./PoEUtility_v0.5	
PoEUtility_v0.5	
DisableAllDlg	
GetFHWver	
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 0	
watLoop	
mainloop	
wL 0xa6 0x3 0xff 0x99 0x99 0x0 0x0 0x0 0xd7 0x4 0xb0 0x55 0x55 0x55 0x55 0x55	

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	PoEUtility_v0	0.5 ×
Group 1 Group 2		
v	'Lan Exclusive Port □	Total Consumption: 19.8
	Current Wattage	MAX. Wattage
on Port1 : E	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	5.51	6.82
Firmware Version:00013 Har	dware Version:0001	Restore Default