

HV320-PNET-V2 PROFINET Communication Card User Manual

HNC Electric Limited

1. Overview

Thank you for using our HV320 V2 series inverter and PROFINET expansion card (hereinafter referred to as HV320-PNET-V2 card). HV320-PNET-V2 card is a Profinet fieldbus adapter card that complies with the international Profinet Ethernet standard. This card is installed on the HV320 V2 series inverter to improve communication efficiency and facilitate the inverter networking function, making the inverter a slave station of the fieldbus and accepting the control of the fieldbus master station.

This manual requires the corresponding HV320-PNET-V2 card software version to be 1.00 or above, and the matching GSDML file name is "HV320-PNET-V2.xml".



Please read this user guide carefully before using this product.

Figure 1-1 Appearance of the HV320-PNET-V2 card

2. Installation and Setup

2.1 Installing the HV320-PNET-V2 card

The HV320-PNET-V2 card is installed inside the HV320 V2 series inverter. Before installation, disconnect the power supply of the inverter and wait for about 10 minutes until the charging indicator on the inverter lights up. Then, insert the HV320-PNET-V2 card into the inverter and tighten the screws to avoid damage caused by the tension of the external signal cable on the inter-board signal socket.

Figure 2-1 shows the hardware layout of the HV320-PNET-V2 card. The 2* 8 P bent pin socket (CN1) is used to connect the inverter. The HV320-PNET-V2 card provides two network ports J 3 for communication with the master station and the slave station. For hardware details, see Table 2-1



Figure 2-1 HV320-PNET-V2 card (hardware) Table 2-1 Hardware description of the HV320-PNET-V2 card

Tuble 2 T Hardware description of the H v 520 T (ET v 2 eard					
Symbol	Hardware Name	Functional Description			
CN1	Pin connector	For connecting to frequency			
		converter			
J3	Network Ports	Uses standard Ethernet RJ45			
		socket, no direction, use J3 to			
		connect and communicate			
		with PN card or PLC			
LED2	PROFINET fault indicator (red)				
LED1	PROFINET communication indicator (green)	The HV320-PNET-V2 card,			
LED3	Power indicator light (green)	see Table 2-2.			
LED5	Inverter communication indicator light (green)				

Table 2-2 HV320-PNET-V2 card specification description

Indicator signal		Status description	Solution	
	OFF state	Normal	N/A	
LED 2	Always red	Communication failure	Please contact technical support.	
	Always green	Normal PN	N/A	
LED 1	OFF state	Communication with	P 0 - 28 to 1 and check if the AC drive supports the	
	OFF state	the drive is lost	HV320-PNET-V2 card.	
Always green		Normal	N/A	
LED3	OEE stata	The communication	Check whether the J4 connector is connected properly and	
	OFF state	board is not powered.	whether the inverter is powered on.	
LED5	Always green	Normal	N/A	
LEDS	OFF state	ESC internal fault	Please contact technical support.	

2.3 PROFINET RJ45 interface

The HV320-PNET-V2 card uses standard Ethernet to connect to the PROFINET master station RJ45 socket. Its pin signal definition is the same as the standard Ethernet pin. They can be connected using a crossover cable or a straight-through cable.

Table 2-3 PROFINET communication interface description

Terminal Symbols	Terminal Name	Describe	
12	PROFINET interface 1	DDOEDNET a start de interferer	
12	PROFINET Interface 2	PROFINE 1 network interface.	



When facing the RJ45 interface. Both interfaces must be connected correctly.
Cat5e shielded twisted pair (STP) network cable must be used to ensure stability.

3. Communication Configuration

3.1 Communication Configuration between HV320-PNET-V2 Card and HV320 V2 series inverter after installing the HV320-PNET-V2 card on the HV320 V2 series Inverter, complete the communication configuration to achieve communication between them.

• Communication card settings for the inverter

Inverter software version: L 8.00

The following parameters must be set to enable the HV320-PNET-V2 card to communicate with the HV320 V2 series inverter and connect the HV320-PNET-V2 card to the PROFINET fieldbus network.

Function	name	content	Settings	describe
code				
P0-02	Run command source	 0: Operation panel running command channel (LED off) 1: Terminal command channel (LED on) 2: Communication command channel (LED flashes) 	2	Run command issued via communication
P0-03	Main frequency source X selection	0: Digital setting (preset frequency P0-08, UP/ DOWN can be modified, no memory is stored after power failure) 1: Digital setting (preset frequency P0-08, UP/ DOWN can be modified, power-off memory)	9	Given a target frequency By communication

		2: AI 1 3: AI2 4: AI 3 5: PULSE setting (DI 5) 6: Multi-segment instructions 7: Simple PLC 8: PID 9: Communication setting		
P0-28	Serial communication protocol	0: Modbus protocol 1: Communication card bridge protocol	1	Select special item communication card for communication

Communication control related function codes

Function code	name	Setting range	Decimal address	
U3-16 U3-17	Frequency setting Control Commands	-Maximum frequency~Ma 0.01Hz 0001: Forward operation 0002: Reverse operation 0003: Forward jog 0004: Reverse jog	29456 29457	
U3-18	DO control	BIT 0: DO 1 output control BIT 1: DO 2 output control BIT 2: RELAY 1 lose Out of control BIT 3: RELAY 2 lose Out of control BIT 4: FMR output control	BIT 5: VDO 1 BIT 6: VDO 2 BIT 7: VDO 3 BIT 8: VDO 4 BIT 9: VDO 5	29458
U3-19	AO 1 control	0~7 FFF means 0 %~ 100%		29459
U3-20	AO 2 control	$0 \sim 7$ FFF means 0 % ~ 1	00%	29460
U3-21	FMP Control	$0 \sim 7$ FFF means 0 % ~ 1	00%	29461
U3-22	reserve	reserve		
U3-23	Speed control	Signed data, 1 rpm	29463	

When using the HV320-PNET-V2 card, the default mapping of PZD 1 is U3-17, and the default mapping of PZD 2 is U3-16. If you find that the command or frequency cannot be written to the inverter normally, but PZD 3 to PZD 12 can be written, and P 0-02=2 and P 0-03=9, you can check whether PE 00 is U3-17 and PE 01 is U3-16 on the inverter . If not, please manually change them to the correct values.

Function code	Name	Unit	Decimal address
U0-00	Operating frequency (Hz)	0.01 Hz	28672
U0-01	Set frequency (Hz)	0.01 Hz	28673
U0-02	Bus voltage (V)	0.1V	28674
U0-03	Output voltage(V)	1V	28675
U0-04	Output current(A)	0.01A	28676
U0-05	Output power (kW)	0.1kW	28677
U0-06	Output torque(%)	0.10%	28678
U0-07	DI input status	1	28679
U0-08	DO output status	1	28680
U0-09	AI 1 voltage (V)	0.01V	28681
U0-10	AI 2 voltage (V)	0.01V	28682
U0-11	AI 3 voltage (V)	0.01V	28683
U0-12	Count value	1	28684
U0-13	Length value	1	28685
U0-14	Load speed display	100.00%	2868600.00%
U0-15	PID Setting	1	28687
U0-16	PID Feedback	1	28688
U0-17	PLC stage	1	28689
U0-18	PULSE input pulse frequency (Hz)	0.01 kHz	28690
U0-19	Feedback speed (Hz)	0.01 Hz	28691
U0-20	Remaining running time	0.1Min	28692
U0-21	AI 1 voltage before correction	0.001V	2869300.00%
U0-22	AI 2 voltage before correction	0.001V	28694
U0-23	AI 3 voltage before correction	0.001V	28695
U0-24	Line speed	1m/ Min	28696
U0-25	Current power-on time	1 Min	28697
U0-26	Current running time	0.1 Min	28698
U0-27	PULSE input pulse frequency	1Hz	28699
U0-28	Communication setting value	0.01%	28700
U0-29	Encoder feedback speed	0.01 Hz	28701
U0-30	Main frequency X display	0.01 Hz	28702
U0-31	Auxiliary frequency Y display	0.01 Hz	28703
U0-32	View the value of any memory address	1	28704
U0-33	Synchronous machine rotor position	0.1°	2870500.00%
U0-34	Motor temperature value	1°C	2870600.00%
U0-35	Target torque(%)	0.10%	28707
U0-36	Resolver position	1	28708
U0-37	Power factor perspective	0.1°	28709
U0-38	ABZ position	1	28710
U0-39	VF separation target voltage	1V	28711
U0-40	VF separation output voltage	1V	28712

• Communication monitoring related function codes

U0-41	DI input status intuitive display	1	28713
U0-42	DO input status intuitive display	1	28714
U0-43	DI input status intuitive display 1	1	28715
U0-44	DI input status intuitive display 2	1	28716
U0-45	Fault Information	1	28717
U0-58	Z signal counter	1	28730
U0-59	Setting frequency(%)	0.01%	28731
U0-60	Operating frequency(%)	0.01%	28732
U0-61	Inverter status	1	28733
U0-62	Current fault code	1	28734
U0-63	Operating frequency after droop control	0.01 Hz	38375
U0-64	Current Back EMF	0.1V	28736
U0-65	reserve	-	-
		100: CANopen	
		200: Profibus - DP	
U0-66	Expansion card model	300: CANlink	28738
		400: Profinet	
		500: EtherCAT	
U0-67	Expansion card version number	0.01	28739
U0-68	Inverter status	1	28740
U0-69	Operating frequency (Hz)	0.01 Hz	28741
U0-70	Motor speed	1 rpm	28742
U0-71	Output Current	0.1A	28743

When using the HV320-PNET-V2 card, the default mapping of PZD 1 is U0-68, and the default mapping of PZD2 is U0-69. If you find that the status or operating frequency cannot be read normally, but PZD3~ PZD12 can be read, you can check whether PE-20 is U0-68 and PE-21 is U0-69 on the inverter. If not, please manually change it to the correct value.

3.2 Profinet communication

3.2.1 Profinet topology

The topologies supported by Profinet include bus, star, tree, etc. Through the rational use of switches, a variety of networking can be achieved.

The following diagram shows the bus topology



Figure 3-1 Bus connection topology



Figure 3-2 Star connection topology



Figure 3-3 Tree connection topology

3.3.3 Data transmission format

PROFINET Data Format

According to the ProfiDrive (variable speed transmission) protocol, the usage types are divided into five types : PPO1, PPO2, PPO3, PPO4, PPO5

The functions that each data format can accomplish are as follows:

Data Types	Supported Features
	• Single function parameter operation
PPO1	• Inverter command, frequency setting
	• Inverter status, operating frequency reading
	• Single function parameter operation
	• Inverter command, frequency setting
PPO2	• Inverter status, operating frequency reading
	• 4 function parameters are written periodically
	• 4 function parameters are read periodically
	• Inverter command, frequency setting
PPO5	• Inverter status, operating frequency reading
	• Inverter command, frequency setting
	• Inverter status, operating frequency reading
PP04	• 4 function parameters are written periodically
	• 4 function parameters are read periodically
	• Single function parameter operation
	• Inverter command, frequency setting
PPO5	• Inverter status, operating frequency reading
	• 10 function parameters are written periodically
	• 10 function parameters are read periodically

Table 3-2: PPO type description

PPO Type Description

The data block contained in the PPO type data format is divided into two areas, namely the PK W area (parameter area) and the PZ D area (process data area). The type data format is shown in the figure below



Figure 3-4: PPO type data format

PKW Data Description

PK W data mainly realizes the master station's read and write operations on a single parameter of the inverter. The communication address of the inverter parameter is directly given by the communication data. The functions realized are as follows

- a) Reading inverter function parameters
- b) Change of inverter function parameters

Data Format

PKW data contains three groups of array areas, namely PKE, IND, and PWE, among which the PKE data byte length is 2 bytes, IND is 2 bytes, and PWE, PWE is 4 bytes.

The data format is shown in the following table:

TABLE 3-3:	PKW	DATA	FORMAT
IIIDEL C C.		DINII	I OIUMII

The master sends data PKW							
Operation	Parameter address		Reserve		Write operation:		
Command					parameter value		
						Read opera	tion: empty
PKE	PKE	IND	IND	PWE	PWE	PWE	PWE
	Communication card response data PKW						
Operation	Operation Parameter address			Reserve		Success: R	eturn value
Command						Failed: Err	or message
PKE	PKE	IND	IND	PWE	PWE	PWE	PWE

Table 3-4: PKW data description

Maste	r sends data PKW description	Inverter response data PKW description
РКЕ	High 4 bits: command code	
	0: No request	High 4 bits: Response code
	1: Read parameter data	0 : No request
	2: Change parameter data	1 : Parameters are correct.
	(The above command codes are	7 : Unable to execute
	decimal numbers	Lower 8 bits: parameter address high bits
	according to)	
	Lower 4 bits: reserved	
	Lower 8 bits: parameter address	
	high bits	
IND	High 8 bits: parameter address low	High 8 bits: parameter address low bits
	bits	Lower 8 bits: reserved
	Lower 8 bits: reserved	
PWE	High 16 bits: reserved	When the request is successful: parameter value
	Lower 16 bits: not used for read	When a request fails: Error code (same as
	requests; indicates parameter	standard
	value for write requests	MODBUS
		Consistent)
		1 : Illegal command
		2 : Illegal address
		3 : Illegal data
		4 : Other errors

Application Examples

The master station reads the inverter function parameter P 0-08 sending data PK W area and the inverter response data PKW area as shown in the figure below:



Figure 3-5: Example of the master station reading inverter parameters and sending PKW data

PZD area data description

The PZD area enables the master station to modify and read the inverter data in real time and exchange data periodically.

The frequency converter is directly configured. It mainly includes the following contents:

a) Inverter control command and target frequency are given in real time

b) Real-time reading of the inverter's current status and operating frequency

c) Real-time interaction of function parameters and monitoring parameter data between the inverter and the PROFINET master station

Note: " GSDML-V2.31-EM-PNCard-20230520.xml " or later versions

The default mapping of PZD1 written is U3 - 17, and the default mapping of PZD2 is U3 - 16.

The default mapping of PZD1 read is U 0 - 68, and the default mapping of PZD2 is U 0-69.

PZD process data mainly completes the periodic data interaction between the master station and the inverter. The interaction data is shown in Table 8 below :

Mast	er sends data PZI) area	Inverter	response data PZ	D area
PZD1	PZD2	PZD3~PZD12	PZD1	PZD2	PZD3~PZD12
Control Word	Frequency	Real-time	Status word	Operating	Real-time
(U3–17)	setting	change of	(U0-68)	frequency	reading of
	(U3–16)	inverter		(U0-69)	inverter
		function			function
		parameters			parameters

Table 3-5 Interaction data

able 3-6
able 3-6

	Master sends data PZD description	Inver	ter response data PZD area
PZD1	Inverter command word (the command source needs	PZD1	Inverter operating status
	to be set to communication, that is, P0-02=2)		information
	0001: Forward operation		interest
	0002: Reverse operation		0001: Forward operation
	0003: Forward jog		0002: Reverse operation
	0004: Reverse jog		0003: Shutdown
	0005: Free stop		
	0006: Deceleration and stop		
	0007: Fault reset		
	0008: Fault reset (fault reset is only possible in		
	communication control mode)		
PZD2	The inverter target frequency (frequency source is	PZD2	Inverter operating frequency
	set to "communication") is in the range from the		(unit: 0.01Hz)
	negative frequency upper limit (negative value) to		Returns the actual operating
	the positive frequency upper limit (including the		frequency of the current
	decimal point, for example, 2000 corresponds to		inverter. The returned data
	20.00 Hz on the AC drive). When the given target		value is a 16-bit signed data.
	frequency exceeds this range, the AC drive runs at		
	the frequency upper limit.		
	For example, if the Frequency High Limit setting is		
	50.00 Hz and the Comm Setting is 6000, the AC		
	drive will run forward at 50.00 Hz. If the Frequency		
	High Limit setting is 50.00 Hz and the Comm		
	Setting is -6000, the AC drive will run reverse at		
	50.00 Hz.		
PZD3~	Change function parameter values in real time	PZD3~	Function parameters
PZD12	, do not write to EEPROM	PZD12	real-time reading

4. Configure the slave with S7-1200 in TIA Portal

1) Open TIA Portal V13, create a new project, and add an S7-1200 master station according to actual conditions.



Adding the Siemens PLC, switch to the "Project View"

2) Install GSD file (if GSD is already installed, you can skip this step)

GSD file that has not been installed will be displayed as "Not installed yet". Check it and select "Install" and wait for the installation to complete (it is recommended that the installation path does not contain Chinese, otherwise an error may be reported).



Manage general station description Source path: C:\Users\zhujiawen\D	n files esktop\HV320)-PNET_GSDML		×
Content of imported path				
File	Version	Language	Status	Info
GSDML-V2.31-HV320-PNET-20240	V2.31	English	Already installed	HV320-PNE
<		101	Delete Install	Cancel

When the "Successfully installed" interface appears, click Close. After the GSD installation is complete, PORTAL will automatically close the configuration interface. After the installation is complete, you can find HV320-PNET-CARD in the hardware device tree. The corresponding equipment is as shown below

Hardware catalog	- I I 🕨
Options	
✓ Catalog	
<search></search>	fini Lini
Filter Profile: <all></all>	- 1
PC systems	^
Drives & starters	
Image:	
🕨 🧊 Detecting & Monitoring	
Distributed I/O	
Power supply and distribution	
Field devices	
🕶 🛅 Other field devices	=
Additional Ethernet devices	
PROFINET IO	
🕶 🛅 Drives	
👻 📊 Kechuang	
🕶 🛅 Inverter	
EM-PN-CARD	1000
HV320-PNET-CARD	
SIEWENS AG	
Encoders	
Catoway	×

3) Configure the network

HV320-PNET-CARD under the "Hardware Catalog" to the "Network View" of "Device & Network", click "Unassigned" on the slave station, and connect to the Profinet corresponding to the PLC. On the network,

Network Connections	HMI connection 💌 🖪 Relations 🕎 🖏 🛄 🔍
PLC_1 CPU 1211C	HV320-PNET HV320-PNET-CA Not assigned



(2) Double-click HV320-PNET-CARD icon to enter the configuration module,

Select the appropriate PPO type in the "Hardware Catalog" and pay attention to the addresses assigned to each segment. As shown in the figure below, the marked part corresponds to the address of the PKW. If the selected PPO does not have a PKW, this column will be blank.



4) Setting PZD Mapping

Switch back to "Network View" and click "Device Specific Parameters" to set the mapping of $PZD3 \longrightarrow PZD12$. Note that the PZD mapping of the PLC read and write slaves is set separately and does not interfere with each other. For specific setting methods, please refer to the introduction of this part of STEP7.

HV320-PNET [HV320-PNET-CAR	D]		Properties	🗓 Info 👔 🖞 Diagnostics 📃
General IO tags Syst	tem constants Texts			
General Catalog information PROFINET interface [X1]	Module parameters			
General	Master - Clave			
Advanced ontions	Master-> stave			
Interface options	PZD1(master->slave):	29457		
Real time settings	PZD2(master->slave):	29456	-	
Port 1 [X1 P1]	PZD3(master->slave):	61440		
Hardware identifier	PZD4(master->slave):	61440		
Module parameters	PZD5(master->slave):	61440		
Hardware identifier	PZD6(master-slave):	61440		
	PZD7(master-sclave);	61440	_	
	PZD9(mastersslave);	61440		
	P2D0(master-stave).	61440		
P	P2D9(master->slave):	61440		
	PZD10(master->slave):	61440		
	PZD11(master->slave):	61440		
	PZD12(master->slave):	61440		
	Slave->Master			
	PZD1(slave->master):	28740		
	PZD2(slave->master):	28741		
	PZD3(slave->master):	61440		

PZDx (master->slave) indicates the address that the master writes to the slave, and PZDx (slave->master) indicates the address that the master reads from the slave. The configurable PZD range is PZD3~PZD12 (depending on the selected message type). The display format is decimal. For example, if you want to set PZD3 (master->slaver) to P 0-12, you need to enter 61452 in the value of this row.

The default value of all PZDs of the HV320 V2 series inverter is P 0-00 (corresponding to 61440 in decimal). PZDs that are not used can be left unchanged and retain the default value. Each slave needs to set the PZD mapping relationship according to the requirements (if the mapping relationship of each slave is the same, you can select a pre-set slave, press CTRL+C, then select the Profinet bus in the configuration and press CTRL+V to directly modify the device name and IP address).

Switch back to "Network View". If you need to add more sites, repeat the above steps. If the configuration is the same, you can directly select the slave site and copy it, and then modify the IP address and device name (Note: the device name must be consistent).

5) Configure the module communication address

HV320-PNET [HV320-PNET-CA	ARD]	Properties	s 🗓 Info 追 🗓 Diagnostics	
General IO tags Sy	stem constants Texts			
✓ General Catalog information	Ethemet addresses			
PROFINET interface [X1] General Ethernet addresses Advanced options Interface options	Interface networked with Subnet:	PN/IE_1 Add new subnet		×
Real time settings Port 1 [X1 P1] Hardware identifier Identification & Maintenance Module parameters Hardware identifier	IP protocol IP address: Subnet mask: Router address:	192 . 168 . 0 . 2 255 . 255 . 255 . 0 Use router 0 . 0 . 0 . 0		
	PROFINET PROFINET device name Converted name: Device number:	Generate PROFINET device name automatically hv320-pnet hv320-pnet 1		

6) Set the device name of the inverter hardware

Click the inverter and right-click to display the drop-down menu. Then click the "Assign device name" option to pop up a dialog box..

		2	Topology vi
Network	Relations 🗰 🕎 🗖	•	
		· 🛄 🛰 -	
		4 IO system: PLC_1.PROFINE	TIO-System (
PLC_1 CPU 1211C PLC_1 PLC_1	T-CA Device configuration Change device Write IO-Device name to M	icro Memory Card	
	Start device tool		
	X Cut	Ctrl+X	
	Copy	Ctrl+C	
	📋 Paste	Ctrl+V	
	× Delete	Del	
	Rename	F2	
	Assign to new DP master / Disconnect from DP maste Ighlight DP master system	IO controller r system / IO system n / IO system	
	🚽 Go to topology view		
	Compile	•	
	Download to device	•	
	💋 Go online	Ctrl+K	
	🔊 Go offline	Ctrl+M	
	V. Online & diagnostics	Ctrl+D	
	Assign device name Perceive alarms Update and display forced	operands	
	Show catalog	Ctrl+Shift+C	
	Roperties	Alt+Enter	
	Export module labeling stri	inc.	

ssign PROFINET device	e name.					_	
		Configured PROF	INET de	vice			
		PROFINET device	name:	hv320-pnet		-	
\rightarrow		Devid	e type:	HV320-PNET-CARD			
		Online access				-	5
		Type of the PG/PC in	terface:	PN/IE		•	
		PG/PC in	terface:	Intel(R) PRO/1000 MT Ne	etwork Connection	•	
ي ا		Device filter	_			-	
8		🔽 Only show d	evices of	the same type			
		Only show d	evices wit	th bad parameter settings			
		Only show d	evices wi	thout names			
	Accossible de	visar in the naturally					
	IP address	MAC address	Device	PROFINET device name	Status		
Flash LED							
	<						
				Up	date list	Assign nan	ne
Online status information	c.						
						Close	

Select the corresponding network card and click "Update list"

Select the inverter corresponding to the MAC code, and then click "Assign name" to complete the inverter name setting.

1.1						
-		Configured PRO	FINET dev	ice		
		PROFINET devic	e name:	hv320-pnet		
_		Dev	vice type:	HV320-PNET-CARD		
		Online access				
		Type of the PG/PC i	nter <mark>f</mark> ace:	PN/IE		•
		PG/PC i	nterface:	Intel(R) PRO/100	00 MT Network Conne	ction 💌 💎 💁
لے		Device filter				
		🛃 Only show	devices of th	ie same type		
		Only show	devices with	bad parameter set	ttings	
		Only show	devices with	out names		
	Accessible devi	ices in the network:		PROFILIER 1	1.1.	
	Accessible devi	MAC eddress 4C-FA-41-80-00-00	Device HV320-P	pportiver device	Ctetur	
	Accessible devi In address 0.0.0.0	AAG address AAAG address 4C-EA-41-80-00-00	Daviaa HV320-P	PROFINET de lise r hv320-pnet	<u>сына</u>	
III	Accessible devi ID address 0.0.0.0	AC-EA-41-80-00-00	Device HV320-P	PROFINET de isos hv320-pnet	сылы У ОК	
	Accessible devi	AC-EA-41-80-00-00	Device HV320-P	PROFINET de lieur hv320-pnet	Статиа ОК	
Flash LED	Accessible devi	ices in the network: MAC address 4C-EA-41-80-00-00	Perios HV320-P	PROFINET device n hv320-pnet	eme <u>Ctetus</u> ♥ OK	
Flash LED	Accessible devi	Ices in the network: MAC-oddross 4C-EA-41-80-00-00	Perios HV320-P	Inormet device of hv320-pnet	ems Status ♥ OK	
Flash LED	Accessible devi P address 0.0.0.0	Ides in the network: MAC oddross 4C-EA-41-80-00-00	Davies HV320-P	Inorialet davies a	Ctetuo ♥ OK Update list	Assign name
Flash LED	Accessible devi	KCes in the network: MAGeddeese 4CEA-41-80-00-00	Peries HV320-P	INOFINET da las las hv320-pnet	OK OK Update list	Assign name
Flash LED	Accessible devia	ACEAN the network:	Devise HV320P	INOFINET da las las l hv320-pnet	OK OK Update list	Assign name
Flash LED	Accessible devit	ere found.	Poviec HV320-P	INOCHINET de les r hv320-pnet	Update list	Assign name
Flash LED	Accessible devit	ere found.	Poviso HV320-P	INOCHIET da las internet hv320-pnet	Update list	Assign name
Flash LED	Accessible devit	ere found.	Peviae HV320-P	INOCINCT da las e	Update list	Assign name
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