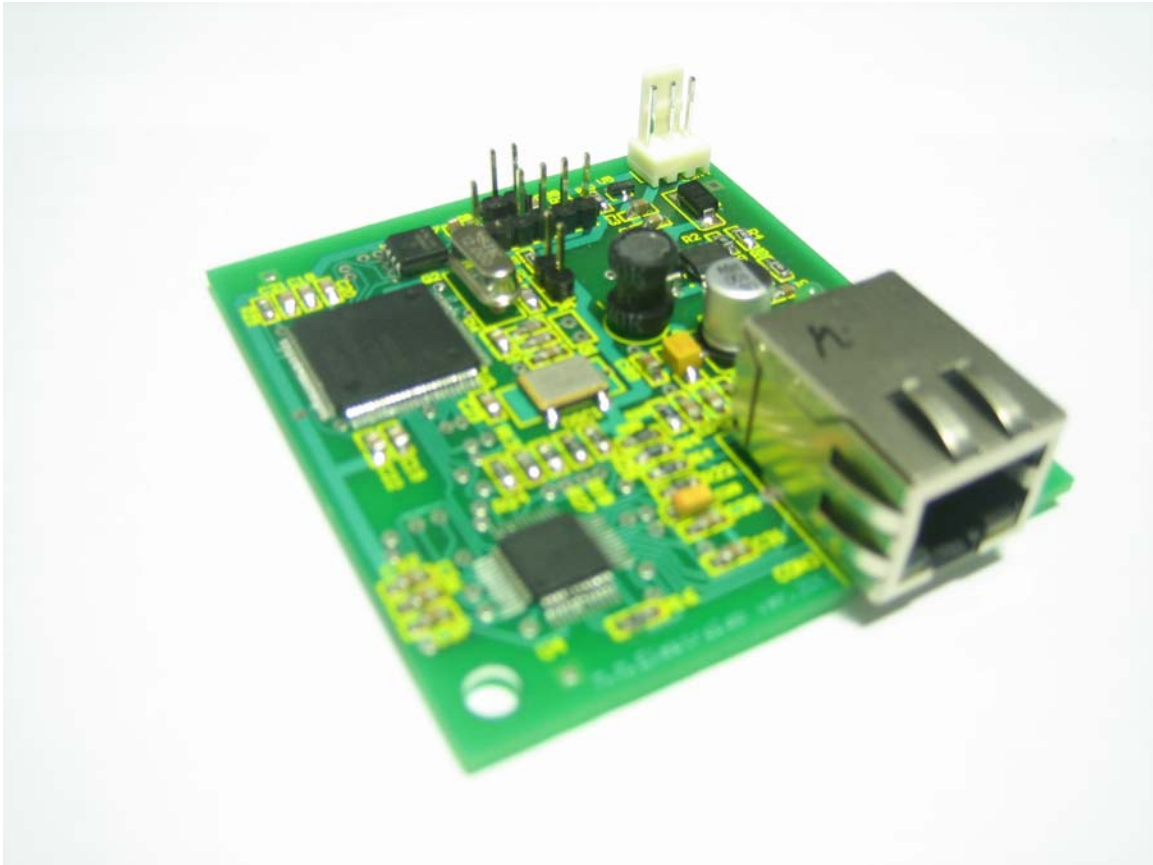


## LAN COMMUNICATION CARD



- Lan card is used for communication between the UPS and the local network.
- SNMP and HTTP protocols.
- Included: MIB files, Software for setting the parameters of the LAN card in the local network
- Software work on Windows platforms, for setting various parameters such as: the choice of activating / deactivating DHCP IP address assignment, adjustment, TRAP, address, etc.

## **UPS is sending next bytes of data and trap:**

- $V_o$  = The output voltage of the UPS
- $P$  = output power VA / %
- $V_i$  = input voltage
- $f_i$  = input frequency
- $V_b$  = battery voltage V / %
- $T$  = ambient temperature
- SN = UPS Serial Number
- Model = of UPS

## **Alarm (trap):**

- A1= Power failure: if occur = 001 / if disappeared = 000
- A2= Low battery: if occur = 002 / if disappeared = 000
- A3= Check the battery: if occur = 003 / if disappeared = 000
- A4= Overload: if occur = 004 / if disappeared = 000
- A5= Overcharging: if occur = 005 / if disappeared = 000
- A6= Overheat: if occur = 006 / if disappeared = 000
- A7= By-pass: if occur = 007 / if disappeared = 000

**If any alarm occurs, the UPS via the LAN card and sends SNMP TRAP messages.**

## ***OID LIST***

- |                                     |                  |
|-------------------------------------|------------------|
| 1. OID - .1.3.6.1.4.1.39385.1.1.0   | Model            |
| 2. OID - .1.3.6.1.4.1.39385.1.2.0   | Serial number    |
| 3. OID - .1.3.6.1.4.1.39385.1.3.0   | Output voltage   |
| 4. OID - .1.3.6.1.4.1.39385.1.4.0   | Output power     |
| 5. OID - .1.3.6.1.4.1.39385.1.5.0   | Input voltage    |
| 6. OID - .1.3.6.1.4.1.39385.1.6.0   | Input frequency  |
| 7. OID - .1.3.6.1.4.1.39385.1.7.0   | Battery charge % |
| 8. OID - .1.3.6.1.4.1.39385.1.8.0   | Power failure    |
| 9. OID - .1.3.6.1.4.1.39385.1.9.0   | Battery empty    |
| 10. OID - .1.3.6.1.4.1.39385.1.10.0 | Check battery    |
| 11. OID - .1.3.6.1.4.1.39385.1.11.0 | Overload         |
| 12. OID - .1.3.6.1.4.1.39385.1.12.0 | Overcharging     |
| 13. OID - .1.3.6.1.4.1.39385.1.13.0 | Overheat         |
| 14. OID - .1.3.6.1.4.1.39385.1.14.0 | By-pass          |
| 15. OID - .1.3.6.1.4.1.39385.1.15.0 | Temperature      |
| 16. OID - .1.3.6.1.4.1.39385.2.1.0  | System           |
| 17. OID - .1.3.6.1.4.1.39385.2.2.0  | Time             |
| 18. OID - .1.3.6.1.4.1.39385.2.3.0  | Contact          |

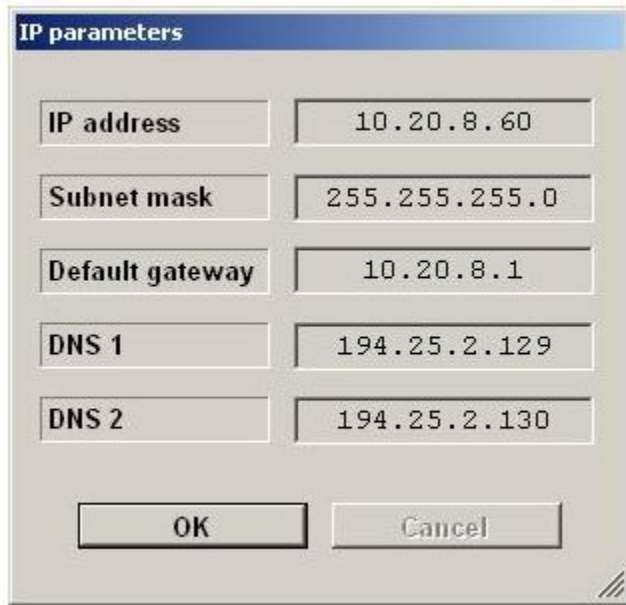
## Setting the parameters of the SNMP card

*IP adresS*

*DHCP*

*Trap IP address*

SNMP card is supplied with the following parameters entered.



The screenshot shows a dialog box titled "IP parameters" with a blue header bar. It contains five rows of input fields, each with a label on the left and a text box on the right. The labels are "IP address", "Subnet mask", "Default gateway", "DNS 1", and "DNS 2". The corresponding values entered in the text boxes are "10.20.8.60", "255.255.255.0", "10.20.8.1", "194.25.2.129", and "194.25.2.130". At the bottom of the dialog box, there are two buttons: "OK" and "Cancel".

Parameter	Value
IP address	10.20.8.60
Subnet mask	255.255.255.0
Default gateway	10.20.8.1
DNS 1	194.25.2.129
DNS 2	194.25.2.130

DHCP - off

To make the setting SNMP card is required as parameters to the network PC (through which you set), enter:

IP address 10.20.8.1

Subnet mask 255.255.255.0

Connect the SNMP card to a network or PC.

The Setup program uses „**UPSmonitorSetup.exe**„

Enter the IP address of the SNMP card.

Then **Connect**.

Enter the IP address of the LAN card  
UPISATI IP ADRESU SNMP KARTICE

UPS monitor setup

10.20.8.60

Connect

IP parameters

Get Set

DHCP

Get Set

IP trap address

Get Set

Trap mask

Get Set

**Get** - reads data  
**Set** - writing data

UPS monitor setup

10.20.8.60

Connect

IP parameters

Get Set

DHCP

Get Set

IP trap address

Get Set

Trap mask

Get Set

Setting the IP parameters

The data recorded — Get — Set data

Setting DHCP

Setting the Trap IP address

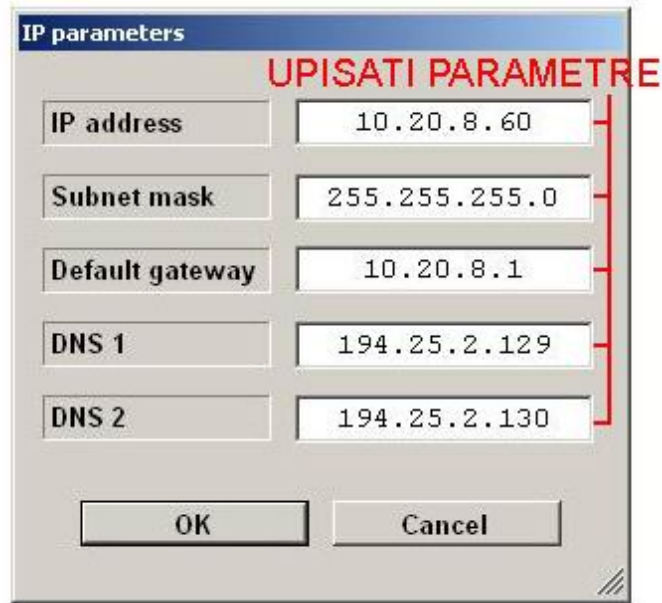
Not used

## Entering the IP address

Below the IP parameters to click the mouse on the Set.

Fields (to assign an IP address tab and fill in the parameters of the network to which it connects), and enter by clicking on OK.

### Enter the parameters



The image shows a dialog box titled "IP parameters". It contains five input fields with the following values: IP address (10.20.8.60), Subnet mask (255.255.255.0), Default gateway (10.20.8.1), DNS 1 (194.25.2.129), and DNS 2 (194.25.2.130). At the bottom are "OK" and "Cancel" buttons. A red bracket on the right side of the input fields is labeled "UPISATI PARAMETRE" in red text.

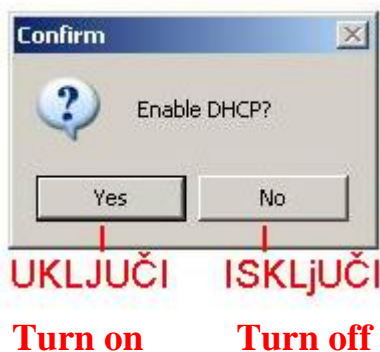
### NOTE

After setting „turn-off,, UPS wait a few seconds and „turn-on,, the UPS, and then ups is now accepted the new IP address and network parameters become active.

## DHCP

Below DHCP click Set.

Enable or disable DHCP.



The image shows a "Confirm" dialog box with a question mark icon and the text "Enable DHCP?". There are two buttons: "Yes" and "No". Below the "Yes" button is the red text "UKLJUČI" and "Turn on". Below the "No" button is the red text "ISKLJUČI" and "Turn off".

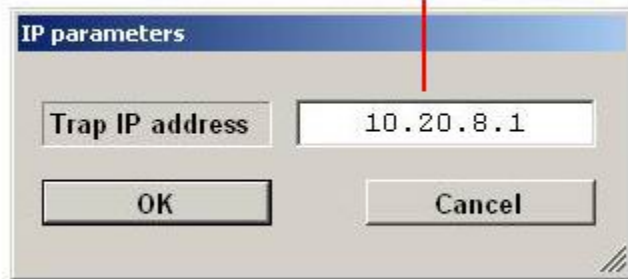
## Setting the Trap IP address

Below the trap IP address click Set.

The field enter the IP address of the computer that we want to follow traps (click on the icon, Local Area Networks, and choose, Support, and there you can see the IP address of the local computer and practically this IP Ares specify):

### Enter the IP address of the trap

#### UPISATI IP TRAP ADRESU



### NOTE

After setting „turn-off,, UPS wait a few seconds and „turn-on,, the UPS, and then ups is now accepted the new IP address and network parameters become active.

Upon completion of the settings from the Setup - click **Disconnect**.

### NOTE

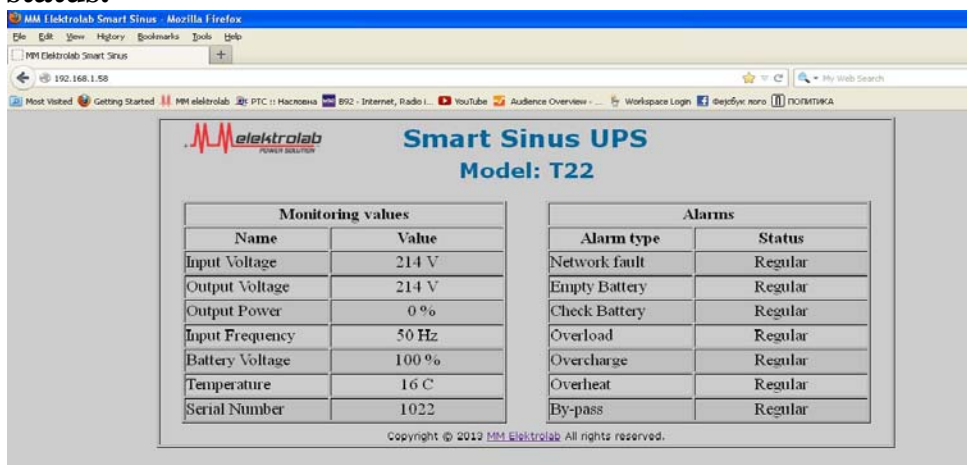
If we have a problem with the connection, SNMP card can be reset as follows:

-PUSH THE RESET BUTTON-and hold pressed (button is on the left side of UTP connector) , in duration of 10s-then release reset buton, turn off the UPS, wait 5 seconds, and turn-on the UPS.

It is important to note that this situation is only possible if the user loses their records the IP address that was entered.

### HTTP:

In the browser enter the IP address of the UPS and will appear in the window to view the status.



Monitoring values	
Name	Value
Input Voltage	214 V
Output Voltage	214 V
Output Power	0 %
Input Frequency	50 Hz
Battery Voltage	100 %
Temperature	16 C
Serial Number	1022

Alarms	
Alarm type	Status
Network fault	Regular
Empty Battery	Regular
Check Battery	Regular
Overload	Regular
Overcharge	Regular
Overheat	Regular
By-pass	Regular

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