

IP Power Socket 5G10A v2



MANUAL

Notes on the safe use

It is essential to read the entire contents of the operating instructions and adhere to its recommendations. The manufacturer is not responsible for the consequences of not applying the recommendations of this manual and use the power socket inconsistent with its intended purpose. The product should be kept away from children.

Do not connect a power strip to the sockets without the correct installation against electric shock (without contact (pin) protective!)

Prior to using a power strip:

- Before using a power strip, check its technical condition - it is prohibited to use a power strip in which any part is damaged - **PRESENT DANGER OF ELECTRIC SHOCK / OF FIRE.**
- Before connecting the device / devices into a power strip, make sure the maximum total current consumption in watts (W) equipment / devices that want to simultaneously connect to a power strip. The total power of the connected device / devices to be connected should not exceed that specified for the power strip.
- Power strip technical data - including above all permissible current rating and maximum permissible load located on the housing. Technical data can also be seen on the packaging or in the data sheet (available at: www.ledats.pl, www.tinycontrol.eu or www.wirelesslan.pl).
- Before connecting the power strip to the mains or before connecting to a power strip, make sure the connected device is turned off.
- Before starting work, the power cord should be fully developed.

Replacing the fuse link:

1. Remove the power strip from the mains.
2. Remove cap of fuse housing and remove the faulty cartridge fuse.
3. Install a new cartridge fuse type: **5x20 mm WTA 10A 250V.**
4. Screw cap with insert into the socket.
5. Connect the power strip to the mains.

NOTE: defective fuse CAN NOT BE REPAIRED. Replace it with a an efficient.

Restrictions:

- It is forbidden to have any independent disassemble, modify, adapt or repair a power strip or its components, in case repairs are necessary - please contact an authorized service center.
- It is forbidden to remove and / or bridging and / or any interference with any components of power strip, including primarily switches, earthing pins, thermal protection, overload protection.

NOTE: To reduce the risk of electric shock or fire, do not remove the cover. Service work can only be carried out by qualified personnel. Repairs have a qualified service personnel using only original parts. Only this guarantees that the safety equipment is maintained.

IP Power Socket 5G10A v2

Power distribution unit in Rack 19" standard. Equipped with five independently managed outlets for 230V. Management available by embeded web server or SNMP protocol. Except ethernet socket ther is 1wire socket for temperature measurement.

RESTARTER, MONITOR, WATCHDOG, CONTROLLER

FEATURES:

- WWW or SNMP v2 management.
- firmware upgrade by special application
- read data in real time without refresh the page
- ON/OFF power to five outlets directly from a web page or SNMP (IP/outs.cgi?outx=x)
- Even Config - adjustable power ON dealy on each outlet after turnign on the unit
- Sheduler - set up to 10 time events like turning on, off, resets
- Watchdog IP for 5 IP adresses and automatical reaction if no reply
- Remote - availability to remote control from buttons of other Lan Controller
- monitoring up to 4 temperature sensors on 1wire interface
- environment temperature measure in power unit
- email or SNMP alert when Watchdog activation or temperature sensor filled condition
- date and time from NTP or manual
- e-mail notification about programmed events
- SNMP TRAP notification about programmed events
- Automatic send SNMP TRAP with state or value inputs
- implement protocols: HTTP, SNMP, SMTP, Sntp, ICMP, DNS, DHCP.
- service temperature sensors: DS18B20

Default user and password is „admin“, IP adress is 192.168.1.100

TECHNICAL SPECIFICATIONS

- outlet quantity: 5
- power voltage: AC 230V
- max curent: 10A
- max power: 2300W
- fuse: 2x10A
- power cable: wire with plug
- ethernet: RJ45, 10Mb
- 1wire: RJ11 support up to 4 sensors

Management by WWW.

1. Control Panel

Reset time – for 0 normal outputs work (ON/OFF) , for time > 0 output after push button change state and return to state before after the specified time in seconds (max 65534).

Change outputs state display

Any text description, max 8 chars

Up Time: 27sec, 1 min, 0 hour, 0 day .. 1970-01-01;02:01:27 IP POWER SOCKET/SENSOR

Control Panel Events Config WatchDog Scheduler Network Config HW:1.2 SW:6.01 S/N:7922

CONTROL PANEL

VCC SUPPLY = 8.3 V Board Temperature = 29.1 °C

Outputs Control

☐ Reverse out state

Reset time
1 0 0 0 5

| Out0 | Out1 | Out2 | Out3 | Out4 |

Out0 Out1 Out2 Out3 Out4

OFF OFF OFF OFF OFF

1 Off 2 On 3 On 4 On 5 On

Set State

Auto switch Out

☐ out0 ☐ out1 ☐ out2 ☐ out3 ☐ out4

1 10 1 1 1

1 1 1 1 1

1-Wire Sensor Inputs

Input	Value	Unit	Description
Inp1	22.3	°C	D518
Inp2	22.6	°C	D518
Inp3	22.3	°C	D518
Inp4	24.3	°C	D518

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automatic socket arming at fixed time (two panes: one - time arming, second - break time)

Set State
All output simultaneously according to combo box

click cause change relay state on opposite (OUT0 relay on board)

2. Events Config

Delay of set outputs after occur events, in seconds max 65535

Automatic application of the socket after starting terminal

Connection time slot when starting terminal. Prevents inclusion all sockets at the same time.

IP POWER SOCKET

Control Panel Events Config WatchDog Scheduler Network Config

Events Config

INPUTS	OUTPUTS/ACTION						
HYSTERESIS	OUT0	OUT1	OUT2	OUT3	OUT4	E-MAIL	SNMP TRAP
ON DELAY	<input type="text" value="0"/>	<input type="text" value="10"/>	<input type="text" value="20"/>	<input type="text" value="30"/>	<input type="text" value="40"/>	<input type="text" value="5"/> <input type="text" value="text"/>	<input type="text" value="10"/>
TEMP <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/> <input type="text" value="text"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>
INP1 °C <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/> <input type="text" value="text"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>
INP2 °C <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/> <input type="text" value="text"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>
INP3 °C <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/> <input type="text" value="text"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>
INP4 °C <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/> <input type="text" value="text"/>	<input type="text" value="100.0"/> <input type="text" value="0.0"/>

inclusion of an input

The value of the input beyond the upwards the the socket will be activated, send an e-mail or SNMP Trap

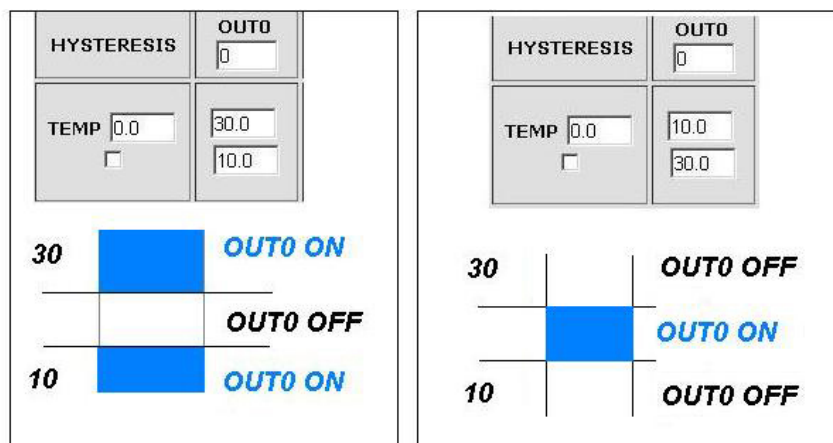
The value of the input, after crossing down that slot will be activated, send an e-mail or SNMP Trap

Save settings (ON/OFF input you don't must save)

Email text taht will be send if events occurance, max amount char is 79. **Chars „=" and „&" are not allowed**

Save Config

Functional Description Event Table



With this change, you can flexibly define thresholds and intervals in which such slot is to be enabled / disabled.

If you have the proper checks the condition of a number of sensors is to force the state to be the sockets that was last registered event.

3. Watchdog

Watch Dog

☐ Enable IP0
IP0

OUT0: ☒ ON | ☐ OFF | ☐ RESET = s | PING Failures ☐ WD

☐ Enable IP1
IP1

OUT1: ☒ ON | ☐ OFF | ☐ RESET = s | PING Failures ☐ WD

☐ Enable IP2
IP2

OUT2: ☒ ON | ☐ OFF | ☐ RESET = s | PING Failures ☐ WD

☐ Enable IP3
IP3

OUT3: ☒ ON | ☐ OFF | ☐ RESET = s | PING Failures ☐ WD

☐ Enable IP4
IP4

OUT4: ☒ ON | ☐ OFF | ☐ RESET = s | PING Failures ☒ WD

s interval time - between next ping,
 s Wait time - before again ping, after event

(max 65535s).

Time to wait for respond is 4s

Amount PING failures, after this one of three events will be happen: set (ON) output, set (OFF) output reset (ON/OFF) output on definite time (max 65535s).

Time to respond is 4 second, after this time one PING failures is counting. In time waiting to respond, another IPX aren't send ping, this may causa stretch time statment that another IPX adress is inaccessible.

Selecting this option forces the watchdog off when in the Event Table occur off / on the socket.

Upon his return to the previous state output watchdog is started automatically.

4. Scheduler

Scheduler

DATE and TIME: Th-1970-01-01;00:00:10

☐ Enable S0

☒ ON | ☐ OFF | ☐ RESET=

☐ Enable S1

☒ ON | ☐ OFF | ☐ RESET=

☐ Enable S2

☒ ON | ☐ OFF | ☐ RESET=

☐ Enable S3

☒ ON | ☐ OFF | ☐ RESET=

☐ Enable S4

☒ ON | ☐ OFF | ☐ RESET=

☐ Enable S5

☒ ON | ☐ OFF | ☐ RESET=

☐ Enable S6

☒ ON | ☐ OFF | ☐ RESET=

☐ Enable S7

☒ ON | ☐ OFF | ☐ RESET=

☐ Enable S8

☒ ON | ☐ OFF | ☐ RESET=

☐ Enable S9

☒ ON | ☐ OFF | ☐ RESET=

Format: number output (from 0 to 4),day1,day2,day3,day4,day5,day6, xx:xx:xx(time)

Week Day: Mo - Monday, Tu- Tuesday, We - Wednesday, Th - Thursday, Fi - Friday, Sa - Saturday, Su - Sunday, ## - all week day. Letter size is important.

Example:

0,Mo,12:23:00 - sets out0 every Monday at 12:23:00

1,Sa;Fr,Mo,23:22:03 - sets out1 every Saturday, Friday and Monday at 23:22:03

1,Sa;Fr,Mo,Tu,Su,Th,23:22:03 - sets out1 every Saturday, Friday, Monday, Tuesday, Sunday and Thursday at 23:22:03

0,##,12:01:30 - sets out0 every week day at 12:01:30

The effect of this may be the inclusion of a relay, switched off or reset (turn on and off) for a limited period in seconds. (max 65535).

5. Network Configuration

Network Configuration

Email client settings

SMTP Server:	<input type="text" value="smtp.serwer.pl"/>	Port:	<input type="text" value="25"/>
User Name:	<input type="text" value="user"/>		
Password:	<input type="text" value="user"/>		
To:	<input type="text" value="user@com.pl"/>		
From:	<input type="text" value="lan_restarter@com.pl"/>		
Subject:	<input type="text" value="Lan Restarter Info"/>		
	<input type="button" value="Save Config"/>	<input type="button" value="Test e-mail send"/>	

e-mail client settings parameter. After changing the settings in order to test the customer - should be save your settings - the „Save Config“ button.

When you change setting press "Save Config" before Test

Network settings

MAC Address:	<input type="text" value="00:04:A3:35:08:43"/>
Host Name:	<input type="text" value="LAN_SWITCH-SENS"/>
	<input type="checkbox"/> Enable DHCP
IP Address:	<input type="text" value="192.168.1.100"/>
Gateway:	<input type="text" value="192.168.1.1"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Primary DNS:	<input type="text" value="192.168.1.2"/>
Secondary DNS:	<input type="text" value="0.0.0.0"/>
	<input type="button" value="Save Config and Reboot"/>

Remote Control

<input type="checkbox"/> Server Enabled
Port: <input type="text" value="30000"/>
Password - <input type="text" value="password"/>
<input type="button" value="Save Config"/>

Remote Control - working as a server (receiving packets and enable / disable the corresponding socket). Terminal working as a server can be triggered from any number of clients (Lan Controllers), the condition is set to the same password.

ACCESS settings

☐ Enable auth

User:

Password:

Max char 8

The user name and password to access the module.

You can disable authorization.

NTP settings

NTP Server: **Port:**

Time Interval

Time Zone

NTP server settings.

Time Interval - the interval in minutes between synchronizations.

SNMP settings

Read Comm1 :

Read Comm2 :

Write Comm1:

Write Comm2:

☐ **TRAP Enable**

Trap Receiver IP

Trap Comm

Fields community (password) for SNMP, must be the same in your queries in order to LK replied.

TRAP Enable – enabled send TRAP by SNMP.

AUTO SEND TRAP settings

☐ **Enable Automatic Send TRAP**

☐ TEMP

☐ INP1

☐ INP2

☐ INP3

☐ INP4

☐ VCC

Time Interval * 10s = 1.00m

Enable Automatic Send TRAP – enable automatic send TRAP by SNMP (above TRAP Enable must be enable)

Time Interval (max value 10555) – period to send TRAP from given INPUT, accuracy 10 s

Date and Time

NTP ☐

Set Manual ☒

Time is set individually or with an NTP server. When set manually each time you reboot the machine need to set the time.

Reading XML data

Enter the IP address and the page name eg 192.168.1.100/st0.xml

The values of the sensors should be divided by 10

Control Panel:

- Dynamic data - st0.xml

- Static data - st2.xml

Events Config: s.xml

Watchdog: w.xml

Scheduler: sch.xml

Network Config: board.xml

Working time: s_time.xml using the Timezone

Switching sockets http request

You can arm / switch set out without clicking on the buttons in the control panel, making use of the following commands:

IP / outs.cgi ? out = xxxxx - switches set the output to the opposite of the current

IP / outs.cgi ? outx = x - disable or enable a specific output

when password authentication is enabled , the command of the following form:

user : password @ IP / outs.cgi ? out = xxxxx

user : password @ IP / outs.cgi ? outx = x

Examples:

192.168.1.100/outs.cgi ? out = 0 - changes the output state to the opposite out0

192.168.1.100/outs.cgi ? out = 2 - out2 output changes state to the opposite

192.168.1.100/outs.cgi ? out = 02 - changes the output state out0 and out2
to the opposite

192.168.1.100/outs.cgi ? out = 01234 - changes the state of the outputs of out0 to out4
the opposite

192.168.1.100/outs.cgi ? out0 = 0 - turns out out0 (ON state)

192.168.1.100/outs.cgi ? out0 = 1 - turns out out0 (OFF)

192.168.1.100/outs.cgi ? out1 = 0 - turns out out1 (ON state)

192.168.1.100/outs.cgi ? out1 = 1 - turns out out1 (OFF)

192.168.1.100/outs.cgi ? out4 = 0 - turns out out4 (ON state)

192.168.1.100/outs.cgi ? out4 = 1 - turns out out4 (OFF)

Firmware Upgrade

In the event that there is a new version of the software or special version for application, it is possible to load such software to the device. This can be done remotely over the network using TFTP.

You may upgrade firmware on two ways:

1. By dedicated software „LAN Controller Tools” (find controller or put IP and click „Upgrade Firmware”).
2. By any TFTP client, description below.

Send firmware file by TFTP, you have 5 seconds (Green LED on RJ45 socket blink) to start sending firmware when module runs after reset (you may reset by clicking button „Save config and Reboot” in Network configuration or „Reset” button on board or dedicated software „LAN Controller Tools”). If transmission does not happen, the device starts working normally. If TFTP transmission will start, then wait about 90 seconds to finish uploading firmware. After uploading, the device will be reset and start normally. If you want to upload an upgrade file, choose „Save config and Reboot” in Network configuration or power OFF and power ON the device.

The file must be sent in binary mode eg. In Windows XP TFTP client

`tftp -i 192.168.1.100 put „file_upgrade.bin”.`



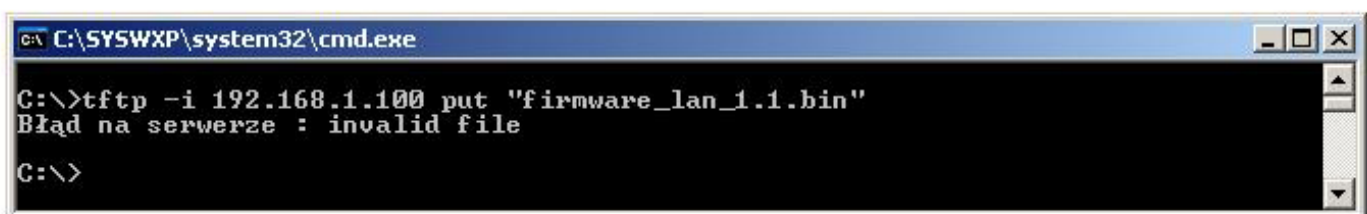
```
C:\SYSWXP\system32\cmd.exe

C:\>tftp -i 192.168.1.100 put "firmware_lan_1.0.bin"
Przesłano pomyślnie: bajtów: 321664 w 79 ss, bajtów/s: 4071

C:\>_
```

After successful loading, the device will reboot and will be ready to go.

If you try to send the wrong file, you get an error message „invalid file”



```
C:\SYSWXP\system32\cmd.exe

C:\>tftp -i 192.168.1.100 put "firmware_lan_1.1.bin"
Błąd na serwerze : invalid file

C:\>
```

NUMBERS OID for SNMP

Soft_version	.1.3.6.1.2.1.1.1.0 READWRITE ASCII_STRING
SYS_OID	.1.3.6.1.2.1.1.2.0 READONLY OID
SYS_UP_TIME	.1.3.6.1.2.1.1.3.0 READONLY TIME_TICKS.
LAN_NAME	.1.3.6.1.2.1.1.5.0 READWRITE ASCII_STRING.
TRAP_RECEIVER_ID	.1.3.6.1.4.1.17095.2.1.1.1.1 READWRITE BYTE.
TRAP_RECEIVER_ENABLED	.1.3.6.1.4.1.17095.2.1.1.2.1 READWRITE BYTE.
TRAP_RECEIVER_IP	.1.3.6.1.4.1.17095.2.1.1.3.1 READWRITE IP_ADDRESS.
TRAP_COMMUNITY	.1.3.6.1.4.1.17095.2.1.1.4.1 READWRITE ASCII_STRING.
OUT0 (5)	.1.3.6.1.4.1.17095.3.1.0 READWRITE BYTE.
OUT1 (6)	.1.3.6.1.4.1.17095.3.2.0 READWRITE BYTE.
OUT2 (7)	.1.3.6.1.4.1.17095.3.3.0 READWRITE BYTE.
OUT3 (8)	.1.3.6.1.4.1.17095.3.4.0 READWRITE BYTE.
OUT4 (9)	.1.3.6.1.4.1.17095.3.5.0 READWRITE BYTE.
TEMP (10)	.1.3.6.1.4.1.17095.3.6.0 READONLY ASCII_STRING.
VCC (15)	.1.3.6.1.4.1.17095.3.7.0 READONLY ASCII_STRING.
INP1 (11)	.1.3.6.1.4.1.17095.3.8.0 READONLY ASCII_STRING.
INP2 (12)	.1.3.6.1.4.1.17095.3.9.0 READONLY ASCII_STRING.
INP3 (13)	.1.3.6.1.4.1.17095.3.10.0 READONLY ASCII_STRING.
INP4 (14)	.1.3.6.1.4.1.17095.3.11.0 READONLY ASCII_STRING.

Contents of the instructions is regularly checked and if necessary corrected. If the observations errors or inaccuracies, please contact us. It can not be ruled out that, despite best efforts, however, some discrepancies arose. To get the latest version, please contact us or distributors.

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