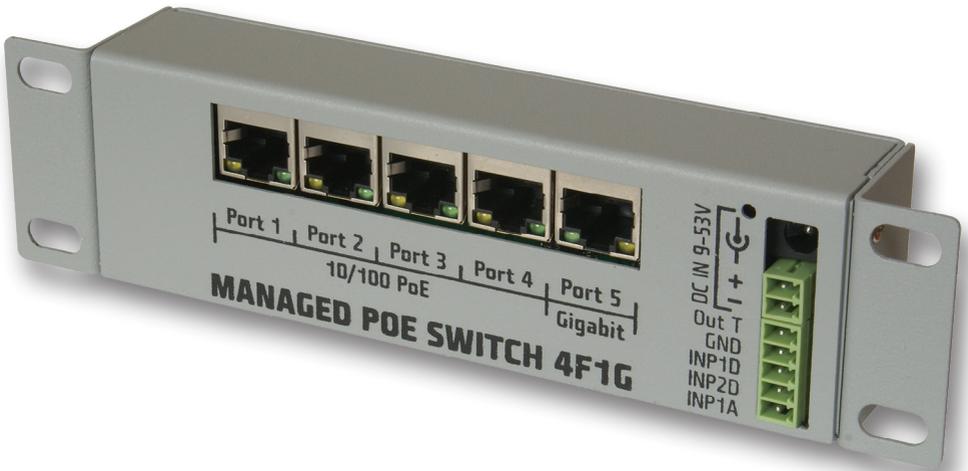


**4F1G Switch**  
**4 ports 10/100Mb PoE + 1 port 1Gb**  
**HW:2.1 SW:1.08**



**Manual**

## 4F1G Switch

Managed PoE switch is unique device designed as combination of management switch, PoE injector and in/out controller.

In opposite to typical PoE switches this one don't has fixed voltage output. This parameter depend on voltage of connected supply. Thanks it switch is very universal and what is very important power supply uninterruptible is very easy to implementation. Just need to connect buffered uninterruptible power supply with battery (also in offer in our shop).

This solution allow for much higher possible output current, limited to 2A per port. It is important for momentary spikes of current, often occurring during start up. However should be remember that high current can damage RJ45 connectors quick - they are not designed for this applications. All supply parameters can be monitored online, also ICMP packets returns is monitored by watchdog, if ping don't reply, output can be reseted.

Switch characterised by unique design - it is only 31mm deep and 1U high. So could be installed in typical 10" rack as well as in very flat, small cabinets for example on corridors.

Other useful feature are 2 logical inputs for monitoring switch surrounds (for ex cabinet doors) and one voltage output (up to 1A) to remote power different devices.

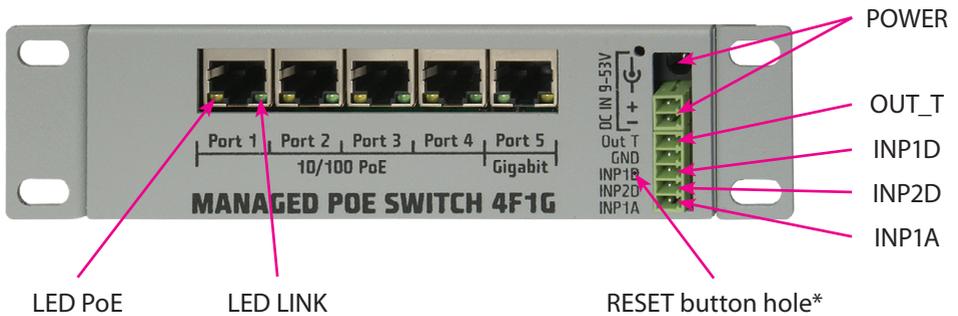
## MAIN FEATURES:

- management by WWW or SNMP v2. *(all SNMP features available after upgrade)*
- firmware upgrade remotely by TFTP
- read data in real time without refresh the page
- ON/OFF power to four passive PoE ports directly from a web page or SNMP
- Watchdog IP on all ports (email notification, trap, reset of power on PoE)
- 1 analog measure input
- 2 logical inputs
- environment temperature measurement
- voltage measurement: resolution, accuracy  $\pm 0.1$  V
- current measurement on each port and consumed by all
- date and time from NTP or manual
- email alert when Watchdog activation
- automatic sending of SNMP TRAP (VCC, temperature, INPD, INPA)
- supported protocols: HTTP, SNMP, SMTP, NTP, ICMP, DNS, DHCP.
- 4 ports 100/10Mbit
- 1 port 1Gbit
- limit power on the PoE port when 2A current is exceeded.
- VLAN support
- optional mounting on DIN rail

## TECHNICAL SPECIFICATIONS

- power supply voltage: **9÷53V**
- current consumption at one POE port: **2A** (*recommended for long life 1A*)
- total power on all ports: **≤ 6A**
- power consumption of the switch: **<1W**
- protection against reverse polarity: **YES**
- maximal current from transistor output: **1A**
- work temperature: **-20 do +85 °C**
- weight: **0,350kg**
- housing high: **1U**
- housing sizes without holders: **146 (173 with holders) x 45 x 31 mm**

## PORTS AND COMPONENTS



**POWER** – power over plug DC5,5 / 2.1 or terminal block

**LED PoE** – LED orange, shining denotes activating the power per port PoE

**LED LINK** – LED green lights means the active link, blinking - data transfer RX / TX

**INP1D, INP2D** – digital inputs for monitoring, eg. power supply buffer, max input voltage 24V.

**OUT\_T** – voltage output transistor performance 1A. The voltage represents switch power supply voltage.

**INP1A** – analog input for voltage measurement in the range 0÷3,3V

**RESET** – press button (eg. paper clip), power on and holding the button down for approx. 5 seconds restores the factory settings.

*(\*) - RESET procedure in older versions of the switch (no hole) is described on page 14.*

**Default user and password is „admin“**

**IP address is 192.168.1.200**

# Management by WWW.

## 1. STATUS

UpTime:34 sec, 58 min, 22 hour, 2 day ..... 2015-06-29;14:31:30

Poe\_switch : ATS POE SWITCH2

STATUS

POE

PORTS

VLAN

WATCHDOG

SWITCH SETTINGS

HW:2.1 SW:1.06

### STATUS

VCC SUPPLY =12.6 V

Board Temperature= 39 °C

	Port 1	Port 2	Port 3	Port 4	Port 5
<b>Name</b>	port1	port2	port3	port4	port5
<b>Enabled</b>	ON	ON	ON	ON	ON
<b>Link</b>	link	no	no	no	link
<b>Speed</b>	10	10	10	10	1000
<b>Auto Negotiation</b>	ON	ON	ON	ON	ON
<b>Duplex</b>	half	half	half	half	full
<b>Tx Bytes [KIB/s]</b>	0.3	0.0	0.0	0.0	3.1
<b>Rx Bytes[KIB/s]</b>	0.0	0.0	0.0	0.0	3.2
<b>PoE on/off</b>	ON	OFF	OFF	OFF	x
<b>PoE [mA]</b>	59	0	0	0	x
<b>PoE [W]</b>	0.7	0.0	0.0	0.0	x
<b>Total current draw [A]</b>	0.06				x
<b>Total power draw [W]</b>	0.7				x
<b>INP1A [V]</b>	0.0				
<b>INP1D State</b>	1				
<b>INP2D State</b>	1				
<b>Out_T on/off</b>	OFF				

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In this window is a summary presented the switch current status.

**PoE on/off** – specifies the state of power supply on PoE port: green ON, a red OFF.

**PoE [mA]** – shows the current consumption of the device.

**PoE [W]** – shows the power consumption of the device.

**INP1A [V]** – shows the voltage at the input INP1A.

**INP1D State** – shows the status of the input INP1D.

**INP2D State** – shows the status of the input INP2D.

**Out\_T on/off** – shows the status of output Out\_T.

## 2. POE

### POE

VCC SUPPLY =12.7 V

Board Temperature= 39 °C

PoE POWER  
ON/OFF

✓ Confirm Power ON/OFF Enable

	Port 1	Port 2	Port 3	Port 4	OUT_T
Name	port1	port2	port3	port4	Out_T
POE on/off	ON	OFF	OFF	OFF	OFF
Link Status	link	no	no	no	x
PoE [mA]	58	0	0	0	x
PoE [W]	0.7	0.0	0.0	0.0	x
Total current draw [A]	0.06				x
Total power draw [W]	0.7				x
PoE after start	<input checked="" type="checkbox"/> ON	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF
PoE start delay[s]	5	10	15	20	25

The value of the current  
drawn by the device  
per port PoE

The value in seconds  
to return to the OFF state  
after switching  
PoE POWER ON

selection switches  
Power on the PoE port  
after reboot / start switch

## 3. PORTS

any description  
max 8 characters

### PORTS

	Port1	Port2	Port3	Port4	Port5
Name	port1	port2	port3	port4	port5
Enabled	<input checked="" type="checkbox"/> ON				
Link Status	link	no	no	no	link
Speed	10 <input type="text" value="100"/>	10 <input type="text" value="100"/>	10 <input type="text" value="100"/>	10 <input type="text" value="100"/>	1000 <input type="text" value="100"/>
Auto Negotiation	<input checked="" type="checkbox"/> ON				
Full Duplex	<input checked="" type="checkbox"/> half	<input checked="" type="checkbox"/> full			
Mirrored Port	<input type="text" value="Disabled"/>				
Mirroring Port Enabled	<input type="radio"/>				

## 4. VLAN

Inclusion of of isolation between ports:

In order to isolate traffic between the ports, so that the traffic was directed only to the individual ports 1÷4, for example, only port Gigabit P5 you can use the **Port based VLAN Member**.

For the example above, only the ports select „M” (if we are able to manage the switch from each port) and port „5”. For the port „5” we leave all selections (except P5). Then memorize the setting with „Save” button.

VLAN								
VLAN Table Operation								
Ports	M Management	P1 port1	P2 port2	P3 port3	P4 port4	P5 port5		
Ingress VLAN Mode	All frame ▾	All frame ▾	All frame ▾	All frame ▾	All frame ▾	All frame ▾		
Force Default VID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
CVID	1	1	1	1	1	1		
VID 4095 Drop	<input checked="" type="checkbox"/>							
802.1Q Mode	Port-based ▾	Port-based ▾	Port-based ▾	Port-based ▾	Port-based ▾	Port-based ▾		
Port-based VLAN Member	<input type="checkbox"/> M <input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5	<input checked="" type="checkbox"/> M <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> M <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> M <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> M <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> M <input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 5		
Force port-based VLAN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Egress VLAN Mode	Untouched ▾	Untouched ▾	Untouched ▾	Untouched ▾	Untouched ▾	Untouched ▾		
<input type="button" value="Save"/>								
Enabled	VLAN ID	Name	M	P1	P2	P3	P4	P5
<input type="button" value="Add 802.1Q Vlan"/>							<input type="button" value="Save Vlan"/>	

## 5. WATCHDOG

### WATCHDOG

	P1 port1	P2 port2	P3 port3	P4 port4	OUT_T Out_T
Enabled	<input type="checkbox"/> OFF				
Send e-mail	<input type="checkbox"/>				
HOST/IP	host.com	host.com	host.com	host.com	host.com
ICMP time [ms]	?	?	?	?	?
ICMP fail	5 0	5 0	5 0	5 0	5 0
ICMP wait time	3	3	3	3	3
ICMP send period	20	20	20	20	20
Wait time after restart	60	60	60	60	60
Restart time	30	30	30	30	30
Max restart	6 0	6 0	6 0	6 0	6 0
POE state	ON	OFF	OFF	OFF	OFF

Save settings

**Email send** – sends an e-mail when the watchdog work (will restart power supply on a port PoE). E-mail contains information about the number of the current restart and a maximum permissible number of restarts and time of occurrence.

**ICMP time** – it shows in milliseconds latency response to an ICMP packet.

**ICMP fail** – number of unanswered response to a query ICMP, followed by a triggering of the watchdog.

**ICMP wait time** – response time in seconds.

**ICMP send period** – the period of time in seconds between successive queries ICMP.

**Wait time after restart** – the period of time in seconds before sending another query ICMP after activation of the watchdog.

**Restart time** – the period of time in seconds for how long it will turn off the power at the port PoE after activation of the watchdog.

**Max restart** – maksymalna liczba restartów (zadziałań watchdoga). Gdy ta liczba zostanie osiągnięta watchdog na danym porcie zostanie wyłączony, żeby w nieskończoność nie restartować urządzenia, które i tak nie ma zamiaru poprawnie pracować.

**POE state** – determines the state of power supply to PoE port: red OFF, green ON.

## 6. SWITCH SETTINGS

### SWITCH SETTINGS

<b>NETWORK</b>	<b>NETWORK</b>		network settings configuration.
<b>ACCESS</b>	DHCP Enabled	<input type="checkbox"/> <b>OFF</b>	
<b>TIME</b>	IP Address	10.200.0.180	
<b>EMAIL</b>	Subnet Mask	255.255.255.0	
<b>SNMP</b>	Gateway	10.200.0.254	
<b>OTHERS</b>	DNS	8.8.8.8	
	Mac Address	00:1E:C0:DE:74:C0	
	Http Port	80	
	<input type="button" value="Save and Reboot"/>		

### SWITCH SETTINGS

<b>NETWORK</b>	<b>ACCESS</b>		The user name and password to access the module. You can disable authorization.
<b>ACCESS</b>	Auth Enabled	<input checked="" type="checkbox"/>	
<b>TIME</b>	User	admin	
<b>EMAIL</b>	Password	•••••	
<b>SNMP</b>	Upgrade Enabled	<input checked="" type="checkbox"/>	
<b>OTHERS</b>	<input type="button" value="Save"/>		

### SWITCH SETTINGS

<b>NETWORK</b>	<b>TIME</b>		NTP Server Settings, Time Interval - time in minutes, at what time will be synchronized with the server.
<b>ACCESS</b>	NTP Enabled	<input checked="" type="checkbox"/>	
<b>TIME</b>	Set Manual	2015-06-29;14:36:2	
<b>EMAIL</b>	NTP Server	pool.ntp.org	
<b>SNMP</b>	NTP Port	123	
<b>OTHERS</b>	Time Zone	1	
	Time Interval	600	
	<input type="button" value="Save"/>		

## SWITCH SETTINGS

**NETWORK**

**ACCESS**

**TIME**

**EMAIL**

**SNMP**

**OTHERS**

EMAIL	
SMTP Server	smtp.com
Port	25
User Name	user
Password	••••
To	reciver@com
From	sender@com
Subject	subject
<input type="button" value="Save"/> <input type="button" value="Send Test Email"/>	

Configure email account to send notifications.

## SWITCH SETTINGS

**NETWORK**

**ACCESS**

**TIME**

**EMAIL**

**SNMP**

**OTHERS**

SNMP	
Read/Write community	public
<input type="button" value="Save"/>	

Password for SNMP

## SWITCH SETTINGS

**NETWORK**

**ACCESS**

**TIME**

**EMAIL**

**SNMP**

**OTHERS**

OTHERS	
Switch Name	Poe_switch
Out_tName	Out_T
<input type="button" value="Save"/>	
Firmware upgrade	<input type="button" value="Bootloader start"/>

***Bootloader start***  
– toggles the switch  
in software upgrade mode

## Software update

In the event that there is a new version of the software it is possible to load such software for the device.

To install the new firmware to the switch should move it in bootloader mode. The easiest way to do it from the menu **Switch Settings/Others**:

1. the „**Upgrade Enabled**” in the **Switch Settings / Access** must be enabled.
2. through the „**Bootloader start**” button.

We have 60 seconds to start uploading via FTP. This will take about 6÷7 seconds and after this time, the switch will reboot automatically. If at uploading was a mistake, bootlaoder mode will automatically restart until the correct upload file.

**SWITCH SETTINGS**

<b>NETWORK</b>	<b>ACCESS</b>
<b>ACCESS</b>	Auth Enabled <input checked="" type="checkbox"/>
<b>TIME</b>	User <input type="text" value="admin"/>
<b>EMAIL</b>	Password <input type="password" value="....."/>
<b>SNMP</b>	Upgrade Enabled <input checked="" type="checkbox"/> ← <i>Upgrade Enabled</i>
<b>OTHERS</b>	Save

– It must be enabled to allow the upload new software

**SWITCH SETTINGS**

<b>NETWORK</b>	<b>OTHERS</b>
<b>ACCESS</b>	Switch Name <input type="text" value="Poe_switch"/>
<b>TIME</b>	Out_t Name <input type="text" value="Out_T"/>
<b>EMAIL</b>	Save
<b>SNMP</b>	Firmware upgrade <input type="button" value="Bootloader start"/> ← <i>Bootloader start</i>
<b>OTHERS</b>	

– toggles the switch in software upgrade mode

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.

# SNMP OID NUMBERS

## A group of voltages, currents, inputs, PoE

- iso.3.6.1.4.1.7616.1.1.0 = INTEGER: 125 – *supply voltage, divide the result by 10*
- iso.3.6.1.4.1.7616.1.1.1 = INTEGER: 0 – *INP1A, voltage, divide the result by 10*
- iso.3.6.1.4.1.7616.1.1.2 = INTEGER: 387 – *temperature, divide the result by 10*
- iso.3.6.1.4.1.7616.1.1.3 = INTEGER: 1 – *INP1D*
- iso.3.6.1.4.1.7616.1.1.4 = INTEGER: 1 – *INP2D*
- 
- iso.3.6.1.4.1.7616.1.2.0 = INTEGER: 1 – *PoE port1 ON/OFF*
- iso.3.6.1.4.1.7616.1.2.1 = INTEGER: 1 – *PoE port2 ON/OFF*
- iso.3.6.1.4.1.7616.1.2.2 = INTEGER: 1 – *PoE port3 ON/OFF*
- iso.3.6.1.4.1.7616.1.2.3 = INTEGER: 1 – *PoE port4 ON/OFF*
- iso.3.6.1.4.1.7616.1.2.4 = INTEGER: 0 – *PoE OUT\_T ON/OFF*
- 
- iso.3.6.1.4.1.7616.1.3.0 = INTEGER: 0 – *PoE port1 current mA*
- iso.3.6.1.4.1.7616.1.3.1 = INTEGER: 21 – *PoE port2 current mA*
- iso.3.6.1.4.1.7616.1.3.2 = INTEGER: 53 – *PoE port3 current mA*
- iso.3.6.1.4.1.7616.1.3.3 = INTEGER: 0 – *PoE port4 current mA*
- iso.3.6.1.4.1.7616.1.3.4 = INTEGER: 74 – *PoE the sum of currents from p1 to p4 mA*
- 
- iso.3.6.1.4.1.7616.1.4.0 = INTEGER: 0 – *PoE port1 power mW*
- iso.3.6.1.4.1.7616.1.4.1 = INTEGER: 262 – *PoE port2 power mW*
- iso.3.6.1.4.1.7616.1.4.2 = INTEGER: 662 – *PoE port3 power mW*
- iso.3.6.1.4.1.7616.1.4.3 = INTEGER: 0 – *PoE port4 power mW*
- iso.3.6.1.4.1.7616.1.4.4 = INTEGER: 925 – *PoE the sum of power from p1 to p4 mW*

## Grupa statusu portów

iso.3.6.1.4.1.7616.2.1.0 = INTEGER: 1 – Port1 On/OFF  
 iso.3.6.1.4.1.7616.2.1.1 = INTEGER: 1 – Port2 On/OFF  
 iso.3.6.1.4.1.7616.2.1.2 = INTEGER: 1 – Port3 On/OFF  
 iso.3.6.1.4.1.7616.2.1.3 = INTEGER: 1 – Port4 On/OFF  
 iso.3.6.1.4.1.7616.2.1.4 = INTEGER: 1 – Port5 On/OFF

iso.3.6.1.4.1.7616.2.2.0 = INTEGER: 0 – Port1 link  
 iso.3.6.1.4.1.7616.2.2.1 = INTEGER: 1 – Port2 link  
 iso.3.6.1.4.1.7616.2.2.2 = INTEGER: 1 – Port3 link  
 iso.3.6.1.4.1.7616.2.2.3 = INTEGER: 1 – Port4 link  
 iso.3.6.1.4.1.7616.2.2.4 = INTEGER: 1 – Port5 link

iso.3.6.1.4.1.7616.2.3.0 = INTEGER: 10 – Port1 speed  
 iso.3.6.1.4.1.7616.2.3.1 = INTEGER: 100 – Port2 speed  
 iso.3.6.1.4.1.7616.2.3.2 = INTEGER: 10 – Port3 speed  
 iso.3.6.1.4.1.7616.2.3.3 = INTEGER: 10 – Port4 speed  
 iso.3.6.1.4.1.7616.2.3.4 = INTEGER: 1000 – Port5 speed

iso.3.6.1.4.1.7616.2.4.0 = INTEGER: 0 – Port1 full/half duplex  
 iso.3.6.1.4.1.7616.2.4.1 = INTEGER: 1 – Port2 full/half duplex  
 iso.3.6.1.4.1.7616.2.4.2 = INTEGER: 0 – Port3 full/half duplex  
 iso.3.6.1.4.1.7616.2.4.3 = INTEGER: 1 – Port4 full/half duplex  
 iso.3.6.1.4.1.7616.2.4.4 = INTEGER: 1 – Port5 full/half duplex

iso.3.6.1.4.1.7616.2.5.0 = INTEGER: 0 – Port1 TX rate B/s  
 iso.3.6.1.4.1.7616.2.5.1 = INTEGER: 2406 – Port2 TX rate B/s  
 iso.3.6.1.4.1.7616.2.5.2 = INTEGER: 0 – Port3 TX rate B/s  
 iso.3.6.1.4.1.7616.2.5.3 = INTEGER: 349 – Port4 TX rate B/s  
 iso.3.6.1.4.1.7616.2.5.4 = INTEGER: 0 – Port5 TX rate B/s

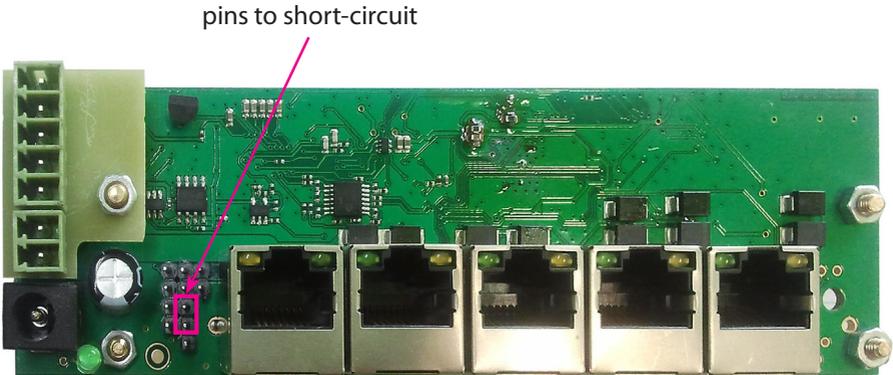
iso.3.6.1.4.1.7616.2.6.0 = INTEGER: 0 – Port1 RX rate B/s  
 iso.3.6.1.4.1.7616.2.6.1 = INTEGER: 2470 – Port2 RX rate B/s  
 iso.3.6.1.4.1.7616.2.6.2 = INTEGER: 0 – Port3 RX rate B/s  
 iso.3.6.1.4.1.7616.2.6.3 = INTEGER: 0 – Port4 RX rate B/s  
 iso.3.6.1.4.1.7616.2.6.4 = INTEGER: 0 – Port5 RX rate B/s

## Grupa watchdog

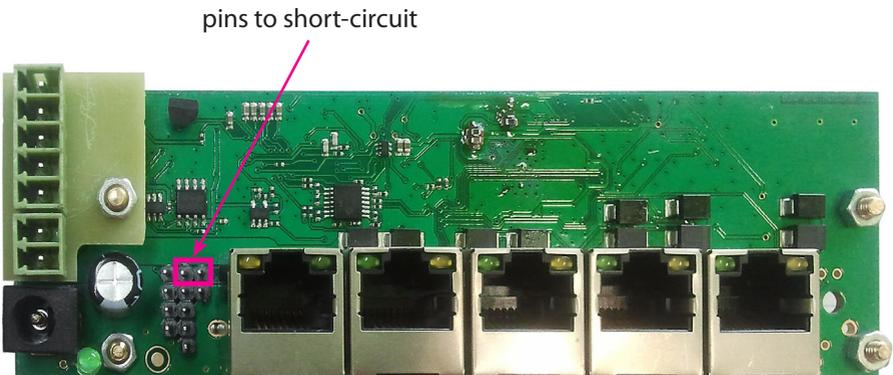
iso.3.6.1.4.1.7616.3.1.0 = INTEGER: 0	– <i>Port1 Watchdog On/OFF</i>
iso.3.6.1.4.1.7616.3.1.1 = INTEGER: 0	– <i>Port2 Watchdog On/OFF</i>
iso.3.6.1.4.1.7616.3.1.2 = INTEGER: 0	– <i>Port3 Watchdog On/OFF</i>
iso.3.6.1.4.1.7616.3.1.3 = INTEGER: 0	– <i>Port4 Watchdog On/OFF</i>
iso.3.6.1.4.1.7616.3.1.4 = INTEGER: 0	– <i>OUT_T Watchdog On/OFF</i>
iso.3.6.1.4.1.7616.3.2.0 = INTEGER: 0	– <i>Port1 Watchdog email On/OFF</i>
iso.3.6.1.4.1.7616.3.2.1 = INTEGER: 0	– <i>Port2 Watchdog email On/OFF</i>
iso.3.6.1.4.1.7616.3.2.2 = INTEGER: 1	– <i>Port3 Watchdog email On/OFF</i>
iso.3.6.1.4.1.7616.3.2.3 = INTEGER: 1	– <i>Port4 Watchdog email On/OFF</i>
iso.3.6.1.4.1.7616.3.2.4 = INTEGER: 0	– <i>OUT_T Watchdog email On/OFF</i>
iso.3.6.1.4.1.7616.3.3.0 = INTEGER: 0	– <i>Port1 Watchdog ping fail count</i>
iso.3.6.1.4.1.7616.3.3.1 = INTEGER: 0	– <i>Port2 Watchdog ping fail count</i>
iso.3.6.1.4.1.7616.3.3.2 = INTEGER: 0	– <i>Port3 Watchdog ping fail count</i>
iso.3.6.1.4.1.7616.3.3.3 = INTEGER: 0	– <i>Port4 Watchdog ping fail count</i>
iso.3.6.1.4.1.7616.3.3.4 = INTEGER: 0	– <i>OUT_T Watchdog ping fail count</i>
iso.3.6.1.4.1.7616.3.4.0 = INTEGER: 0	– <i>Port1 Watchdog restrat count</i>
iso.3.6.1.4.1.7616.3.4.1 = INTEGER: 0	– <i>Port2 Watchdog restrat count</i>
iso.3.6.1.4.1.7616.3.4.2 = INTEGER: 0	– <i>Port3 Watchdog restart count</i>
iso.3.6.1.4.1.7616.3.4.3 = INTEGER: 0	– <i>Port4 Watchdog restart count</i>
iso.3.6.1.4.1.7616.3.4.4 = INTEGER: 0	– <i>OUT_T Watchdog restart count</i>

## The procedure for restoring the factory settings in older versions of the switch (without the RESET button hole).

1. You should upgrade software to the latest available version. For this purpose, with the power off you have to put the jumper on pins marked in red. After powering the unit enters the service mode and will wait about 60 seconds for the file with the new software version. The file should be sent to the device using TFTP. The device will be available at last set IP address. After a successful file upload, wait about 30 seconds for software installation.



2. After updating the software in order to restore default settings before connecting the power supply, put the jumper on pins marked in red. Then, connect the power and after about 5 seconds, the jumper can be removed. Switch has been restored to factory settings and is available under the default IP address (192.168.1.200).





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