

# The Web as mains outlet!



*IP-SwitchBox800*

- Controlled from any web browser, http.
- IP address and port is can be configured.
- Embedded reset-timer for connected equipment.
- Switch-on delays can be configured.
- A remote controlled serial port, via Telnet or browser.
- Usernames and passwords (Basic/Digest).
- Read/write rights for the users can be configured.
- 19" rack mounting with 8 outlets. Max 16A.
- Can also be controlled by RS232.

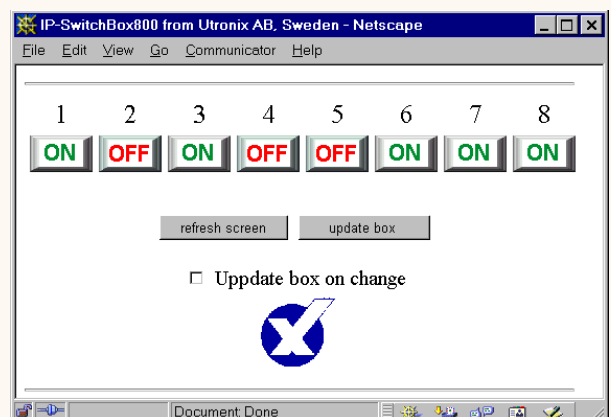
**Try it at 80.252.180.77 !**

With IP-SwitchBox800 you can control computers and modems. You can make "hard reset" on them remotely.

You can of course control other equipments well, for example measurement systems or test arrangements.

And you can control it from anywhere in the world!

Connection to the outlets is dime with common mains plugs, easily accessible at the front.



*The outlets are controlled individually. Choose between having the immediately changed or not until "update box" is pressed.*



UTRONIX

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## Reset Timer

By pushing a reset button the outlet is switched off during the configured time (up to 600s). After that time the outlet is switched on again.

The time is controlled by the IP-SwitchBox800 and will not be disturbed by delays on Internet.

During the rest time the “ON” and the “Reset” buttons are replaced by two buttons that can cancel the reset time, “Turn ON” and “Turn OFF”.

The screenshot shows a control panel for 8 outlets, labeled Uttag 1 through Uttag 8. Each outlet has a status indicator (ON in green, OFF in red) and a corresponding button. Below each button is a '10 sec' label. For Uttag 5, the 'ON' button is replaced by a 'Turn OFF' button, and the 'Reset' button is replaced by a 'Turn ON' button. A 'refresh screen' button is located below the outlet buttons. At the bottom center is a blue circular icon with a white checkmark.

*Here we see a reset of 10s on outlet 5. The reset can be cancelled by clicking “Turn ON” or “Turn Off”.*

## Reset times & Start up sequences

“Turn on delay” is used to delay the outlets from switching on for up to 10 minutes after power failure. That can be used to start equipment in sequence. For example first the printer and then the computer.

”Reset delay” is used to specify for how long time the outlets shall be switched off when the reset buttons is clicked.

The screenshot shows a configuration page with a sidebar on the left containing links: Config main, Switches (highlighted), User manager, Access rights, Control page, and Reset page. The main content area is a table with the following columns: Switch, Switch name (max 32 chars), Turn on delay (0 to 600 sec), and Reset delay (0 to 600 sec). The table contains 8 rows of data. At the bottom right is an 'Apply changes' button.

Switch	Switch name (max 32 chars)	Turn on delay (0 to 600 sec)	Reset delay (0 to 600 sec)
1.	1	0	10
2.	2	.2	10
3.	3	.4	10
4.	4	.6	10
5.	5	.8	10
6.	6	1	10
7.	7	1.2	10
8.	8	1.4	10

## Name on the buttons

Above each ON/OFF button a text can be added, with maximum 32 characters.

Here the names are Uttag1, Uttag2,... etc

Also at the top of the page a text can be added.

The the username is added in front of it.

Here it is “root@IP-SwitchBox800”.

The screenshot shows the control panel with the title 'root @ IP-SwitchBox800' at the top. The outlets are labeled Uttag 1 through Uttag 8, with their names placed above the ON/OFF buttons. Below the buttons are 'refresh screen' and 'update box' buttons. A checkbox labeled 'Update box on change' is checked. At the bottom center is a blue circular icon with a white checkmark.

*Here names above the buttons and a title at the top of the page has been added.*

**Config main**

Switches

User manager

Access rights

Control page

Reset page

MAC address: 00:50:C2:09:60:00

IP address: 10.195.70.218

HTTP port: 80

Telnet port: 23

Title: IP-SwitchBox800

Authorization: HTTP Basic

Lock time (0 to 600 sec): 60

Apply changes

You can specify a “lock time” that reserves the box for one user at a time, for this specified time.  
 You can select HTTP and Telnet port and you can add a header text to the page.

## Authorization

You can choose between Basic and Digest authorization.  
 Basic works with all browsers. Digest gives high security and works with ME but not with Netscape.  
 It is also possible to have no passwords at all.

The IP-address is written as usual with dots between the digits.  
 It is also possible to specify the IP-address so it is allocated by RARP or BOOTP.

## User names

You can specify user names and passwords for 8 user, admin and telnet.

By leaving it blank at “Password” no password is required for that user.

**Config main**

Switches

**User manager**

Access rights

Control page

Reset page

User	Login (max 32 chars)	Password (max 32 chars)
Administrator	root	root_pwd
1.	User_1	User_1_pwd
2.	User_2	User_2_pwd
3.	User_3	
4.		
5.		
6.		
7.		
8.		
Telnet	telnet	telnet_pwd

Apply changes

Here the box is configured for admin, Telnet and three users of whom one don't have to use a password.

**Config main**

Switches

User manager

**Access rights**

Control page

Reset page

User	Login	Access rights							
		1	2	3	4	5	6	7	8
Administrator	root	r/w	r/w	r/w	r/w	r/w	r/w	r/w	r/w
1.	User_1	r/w	r/w	r/w	r/w	r/w	r/w	r/w	r/w
2.	User_2	r/w	r/w	no	no	no	no	no	r/o
3.		r/w	r/w	r/w	r/o	r/o	r/o	r/o	r/o
4.		r/w	r/w	r/w	r/w	r/o	r/o	r/o	r/o
5.		r/w	r/w	r/w	r/w	r/w	r/o	r/o	r/o
6.		r/w	r/w	r/w	r/w	r/w	r/w	r/o	r/o
7.		r/w	r/w	r/w	r/w	r/w	r/w	r/w	r/o
8.		r/w	r/w	r/w	r/w	r/w	r/w	r/w	r/w
Unauthorized		r/w	r/w	r/w	r/w	r/w	r/w	r/w	r/w

Apply changes

## Access rights

Here the access rights is specified for all 8 users and for those not logged in.

Admin has always full rights.

The access rights are specified individually for each outlet.

Choose between no rights, read only and both read and write rights.

Here User\_1 has full rights as wells those not logged in.

## Control from your own program

You can control the IP-SwitchBox from your own programs. On the supplied CD there are simple examples in *Perl* and *VisualBasic*.

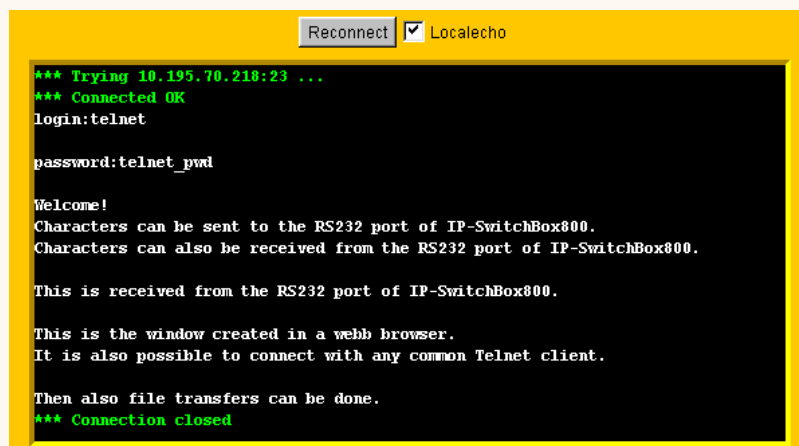
Control is done via http. If you request the resource “k0” some status bytes is returned that tells the present status if the IP-SwitchBox800.

In the same way, if you request the resource “k1aabbccdd” to operate the box. The parameters are “aabbccdd”.

## A remotely controlled RS232 port

You can use the IP-SwitchBox800's RS232 port to control devices remotely. For example as consol to a computer, UPS or other devices with RS232 interface.

You connect to the RS232 port either via *Telnet* or via the *Browser*.



```
Reconnect  Localecho
*** Trying 10.195.70.218:23 ...
*** Connected OK
login:telnet
password:telnet_pwd

Welcome!
Characters can be sent to the RS232 port of IP-SwitchBox800.
Characters can also be received from the RS232 port of IP-SwitchBox800.

This is received from the RS232 port of IP-SwitchBox800.

This is the window created in a webb browser.
It is also possible to connect with any common Telnet client.

Then also file transfers can be done.
*** Connection closed
```

## Control and Configuring via RS232.

The IP-SwitchBox can be controlled with simple text commands (ASCII) via a RS232 port.

The commands are, for example, "ON1", "ON2", "OFF3", "R4" and "?".

The IP-SwitchBox can be configured via RS232. You then get a small menu where the settings are made.

## Technical specifkations

Mains voltage:	230V, 50Hz	Width: 19" (482mm)
Max current:	16A	Depth: 170mm
Ethernet connection:	10M TP	Height: 88mm (2HE)
RS232 connection:	9-pol D-sub with sockets.	Weight: 3,1kg

SEMKO approved, CE-marked.  



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