
SiteSwitch 4

User Manual

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1. What is the SiteSwitch 4?

The SiteSwitch 4 enables the monitoring and the remote control of 4 power outlets via the integrated CS121 SNMP Adapter. The outlets can be switched individual on or rather off. This can be done manually by the operator via web-browser or automatically via the Event Manager (RCCMD commands) of the CS121 or the UPSMON/UPSMAN Software.

The outlet switching can be executed delayed via the scheduler of the CS121 or the UPSMON/UPSMAN Software.

The UNMS II Network Management Software (fee required) can be used also for the control of the outlets.

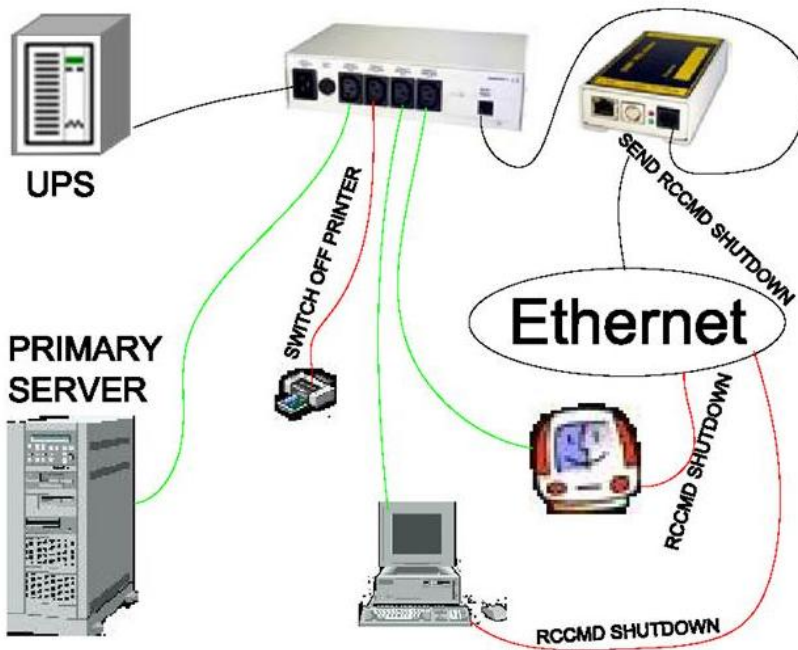


Fig. 1: SS4 AUX in an Network Environment

1.1 The SiteSwitch 4 exists in 2 different Versions

The **SiteSwitch 4 AUX** (product name SS4_AUX) possesses *NO* integrated CS121 SNMP Adapter and uses the CS121 Professional of an UPS nearby. The outlet switching will be done via the IP address of the CS121 Professional (AUX). The SiteSwitch 4 AUX uses the High/Low level of the AUX port of the CS121 Professional.



Fig. 2: SS4 AUX and SS4

The **SiteSwitch 4** (product name SS4) possesses an integrated CS121 SNMP Adapter and is able to be implemented at a random place of the network. The outlet switching ensued via its own IP address directly or rather RCCMD commands.

2. Functional Overview of the SS4_AUX

- 4 configurable power sockets with a breaking capacity of 230V/8A
- Power socket status indicator via HTML, UPSMON, UNMS or SNMP
- Remote control of the power sockets via web-browser (password protected)
- LED-Status of the power sockets
- Small metal housing with 1.5 RU, designed for 19"-Rack mountings (mounting brackets included)
- High breaking capacity (8A), input with IEC 16A
- Programmable power switching via the HTML and UPSMON scheduler
- Delay of alarms (e. g. UPS alarms) triggered power switching on COM1 of the CS121

At the SS4 with integrated CS121, the functions are identical, but the COM2 port is able to be used for other components like sensors for temperature and humidity etc..

3. Installation

Connect the SS4 to the end devices via IEC cable. The SS4 got 4 independent, switchable outlets for devices.



Attention: Please note, that the power drain of 8A never will be exceeded!

In case of an exceeding or a breakdown, the safety device will be triggered and all end devices of the accordant outlet will be disconnected.

If the SS4 will be used into a 19" rack housing, it is required to attach the delivered brackets and to bolt together the SS4 at the front side of the rack. The power supply cables will be attached at the rear side of the SS4.

If all end devices are connected at the SS4, the IEC 16 power supply connector can be plugged in. At operating mode the green „Power“ LED is on. The 4 state LEDs (**Power Socket Status LEDs**) of the outlets should be off.

If the LEDs are off, that means that no power supply voltage is at present, so the end devices are not supplied with voltage.

The implementation into the network ensued as for a CS121 SNMP Adapter. Please take a look into the delivered Quickstart or rather the information into the CS121 User Manual.

4. Control

The communication with the control interface of the SS4 ensued via the integrated CS121 SNMP Adapter. Thereto UPSMON, web-browser, UNMS II or a SNMP program can be used. Any communication will be done via network or rather modem.

The operator can switch on or rather off the outlets manually via web-browser. A yellow lamp means, that the outlet supplies current, a grey lamp means, that the outlet does not supply current.

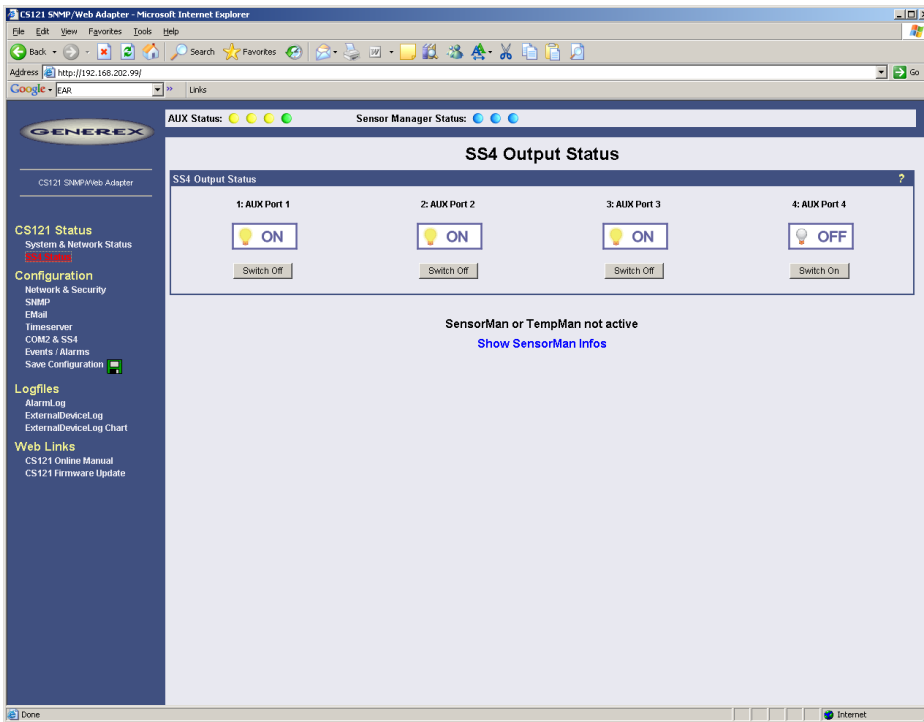


Fig. 3: SS4 Output Status HTML-Interface

You reach the SS4 configuration via the menu „COM2 & AUX Settings“. Furthermore you can define, what kind of delay the outlets should have after a reboot. The outlets will supply current after the delay.

Please note, that the SS4 remembers the switching state of the outlets after a warm-boot (warm-boot = „Save, Exit & Reboot“). That means, that the outlets will be switched like prior of the warm-boot. The defined delay will be visible only at a cold-boot.



Fig. 4: SS4 Configuration

Optional:

The COM2 port can co-administrate a SM_T_COM (temperature sensor) or SensorManager. The Sensormanager provides up to 8 analog measurement values (temperature, humidity, etc.), 4 alarm contacts and 4 relay contacts.

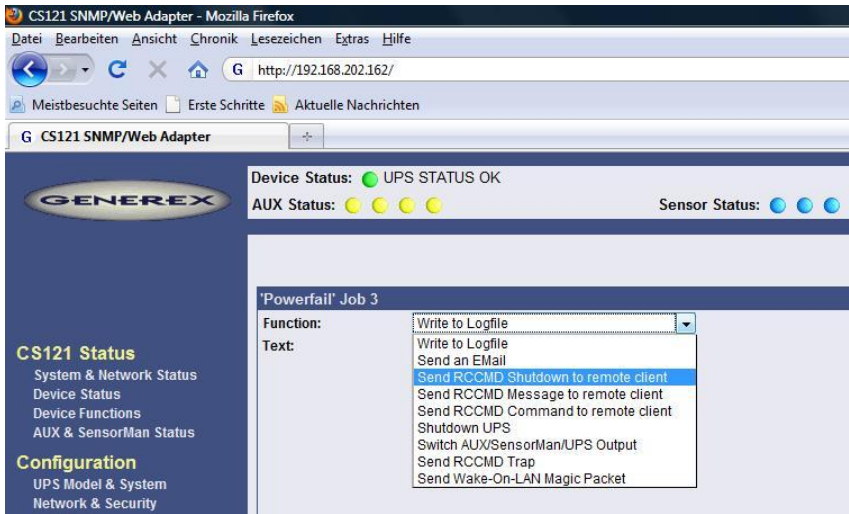


Fig. 5: Send RCCMD Function

The SS4 „is listening“ onto TCP/IP port 6003 (default port for RCCMD clients). If another C121 delivers a RCCMD command via this port, the SS4 will execute the switching of the outlets. Every CS121 possesses into its configuration menu „Events /Alarms“ a function called „Send RCCMD Command to remote client“.

This menu provides the configuration of switching commands to the SS4 via TCP/IP. Every CS121 possesses the opportunity to send RCCMD commands. For the sending of commands for the switching on or rather off of the outlets, accordant commands can be configured into the Event Matrix:

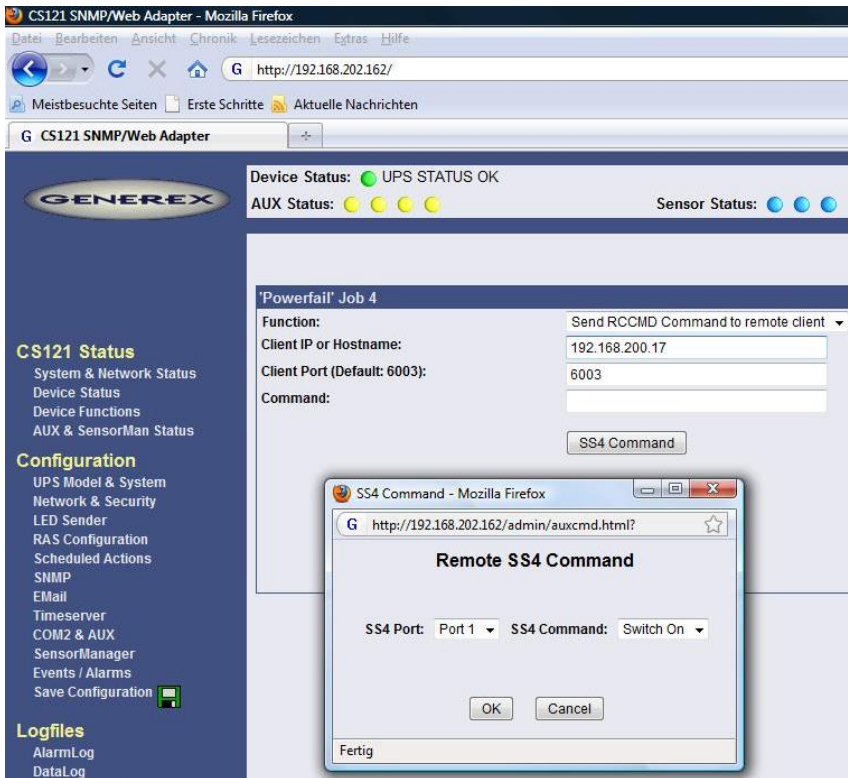


Fig. 6: SS4 Commands via RCCMD

In this example, the SS4 receives a switching off after a power failure. You can define, if this signal should be send onetime and immediately or repeated or at a defined delay after the event will occur. A dependency of the current available autonomy time of the UPS is possible too.

The button „SS4 Command“ (from CS121 firmware version 3.17 or higher) provides a selection of the ports and of the command, but this is a grafical relief only. Of course, you can enter the RCCMD commands with the correct syntax manually or using e. g. non grafical RCCMD senders like UPSMAN Software.

For the switching of the CS121 via command manually, please take a look into the following chapter.

'Powerfail' Job 5

Function:	Send RCCMD Command to remote client ▾
Client IP or Hostname:	192.168.200.17
Client Port (Default: 6003):	6003
Command:	UPSCMD 20000 1,0
<input type="button" value="SS4 Command"/>	

Fig. 7: RCCMD Command

5. Syntax for the Switching of the Outlets

```

|UPSCMD|20000|1,0  Outlet 1 to low
|UPSCMD|20000|1,1  Outlet 1 to high

|UPSCMD|20000|2,0  Outlet 2 to low
|UPSCMD|20000|2,1  Outlet 2 to high

|UPSCMD|20000|3,0  Outlet 3 to low
|UPSCMD|20000|3,1  Outlet 3 to high

|UPSCMD|20000|4,0  Outlet 4 to low
|UPSCMD|20000|4,1  Outlet 4 to high

|UPSCMD|20000|5,0  Outlet 5 to low
|UPSCMD|20000|5,1  Outlet 5 to high

|UPSCMD|20000|6,0  Outlet 6 to low
|UPSCMD|20000|6,1  Outlet 6 to high

|UPSCMD|20000|7,0  Outlet 7 to low
|UPSCMD|20000|7,1  Outlet 7 to high

|UPSCMD|20000|8,0  Outlet 8 to low
|UPSCMD|20000|8,1  Outlet 8 to high

```

Appendix

A. Technical Data

Power supply:	12 - 230V AC +/- 5%
Max. Current Consumption:	16A
No-Load Current:	25mA (at 230V input voltage, all outputs disconnected)
Max. Proper Current per Output:	8A (at ohmic load, cos phi 1)
Dimensions:	270mm x 160mm x 70mm (WxLxH) With brackets: 19", 1,5HE
Operating temperature:	0 - 40°C
Rel. Humidity:	0 - 95%, not condensated
Protection Type:	IP 20

Display Front Side:

- Outlet 1 on/off (LED ON = Outlet ON)
- Outlet 2 on/off (LED ON = Outlet ON)
- Outlet 3 on/off (LED ON = Outlet ON)
- Outlet 4 on/of (LED ON = Outlet ON)

Connections / Switches Rear Side:

- Power Supply IEC 16A
- 4 Outlets 8A
- Safety Device 230V 16A
- LAN Connection
- COM 2 Port
- DIP-Switch for the Configuration of the CS121

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