



User Manual 2822

A4534 A5534 A4537 Touch Screen Control Software

Rev. 4 - 20 February 2025

Purpose of this User Manual

This User's Manual contains the full description of the A4534 A5534 A4537 Touch Screen Control Software.

Change Document Record

Date	Revision	Changes
29 October 2012	0	Preliminary
25 September 2012	1	Updated Log Out description
11 February 2014	2	Updated bookmark §4
20 October 2021	3	Updated with A4537 information
20 February 2025	4	Updated with new features

Reference Documents

SY5527 User's Manual
SY4527 Quickstart Guide
SY5527 Quickstart Guide

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1 Introduction

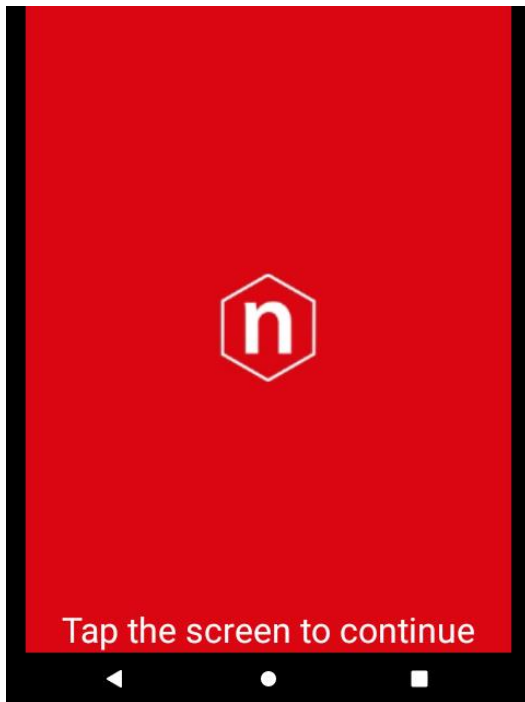
The A5534 - A4537 LCD Touch Screen Control Software is an application that allows to manage all the System, Board and Channel parameters related to the SYx527 power supply system, via the A5534 - A4537 LCD Touch Screen. No software installation procedure is required.

System requirements

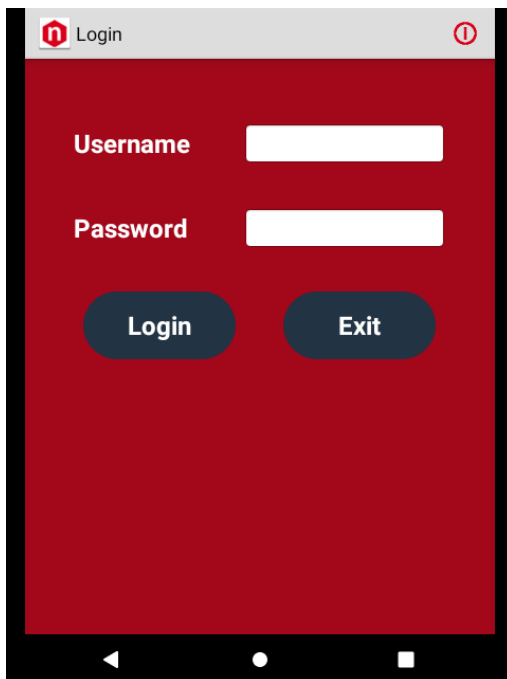
SY5527 Power Supply System with A5534 LCD Touch Screen or SY4527 Power Supply System with A4537 LCD Touch Screen installed.

2 System Log-in

At System turning On, the following screen is displayed:



Tap the screen and the log-in form will be shown:



Touch the screen to launch the virtual keyboard, then type

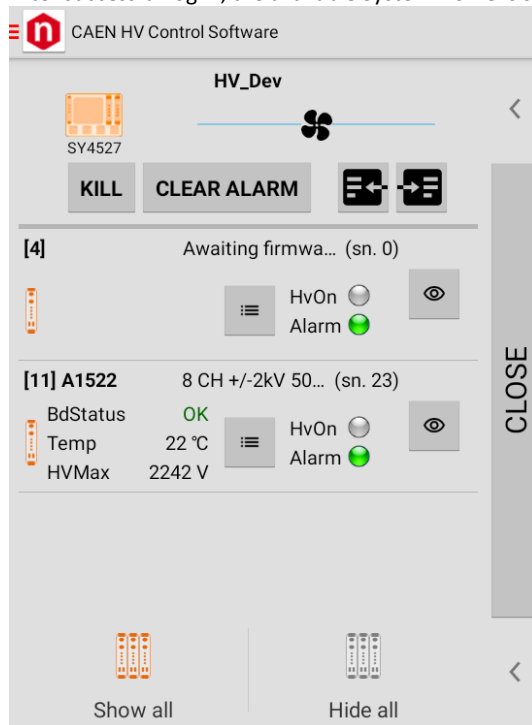
User name: admin (default)

Password: admin (default)

tap Next and Log In and the System Home will be shown

3 System management


After successful log in, the available System Home is shown:



System Home shows what types of boards are inserted into the crate and in which slot they are plugged into, between []. A short description of the board model follows with its features, serial number, and firmware release.

This Panel allows to send:

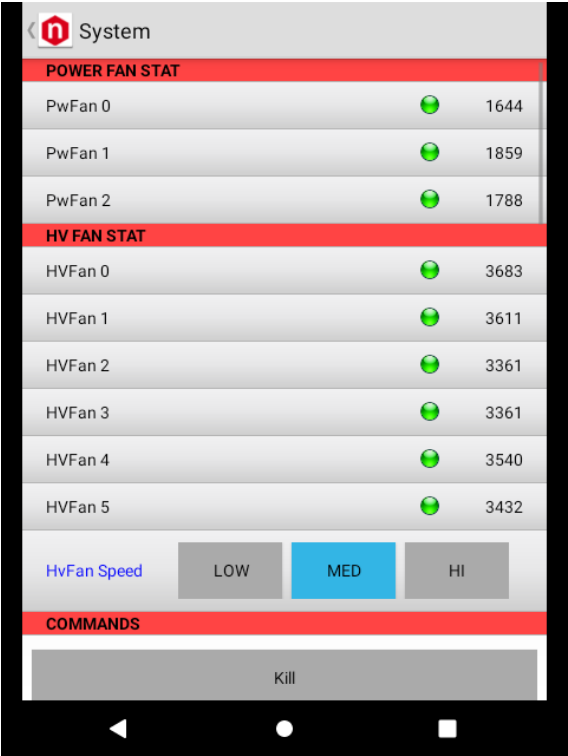
- Kill command: tap Kill button; a pop-up window will appear: if you want to forward the KILL command, tap the YES button
- Clear alarm command: tap Clear Alarm button; this command allows to remove all the alarm conditions which appeared in the Channel rows of the Channel Controller. This operation automatically resets the alarm conditions without requiring power on of the channels. Moreover, it sets the TRIP counter again to its initial programmed value, so that the TRIP counter will start again from the programmed TRIP value as soon as another Over Current condition occurs.

Tapping the “eye icon” , allows to show/hide boards properties.

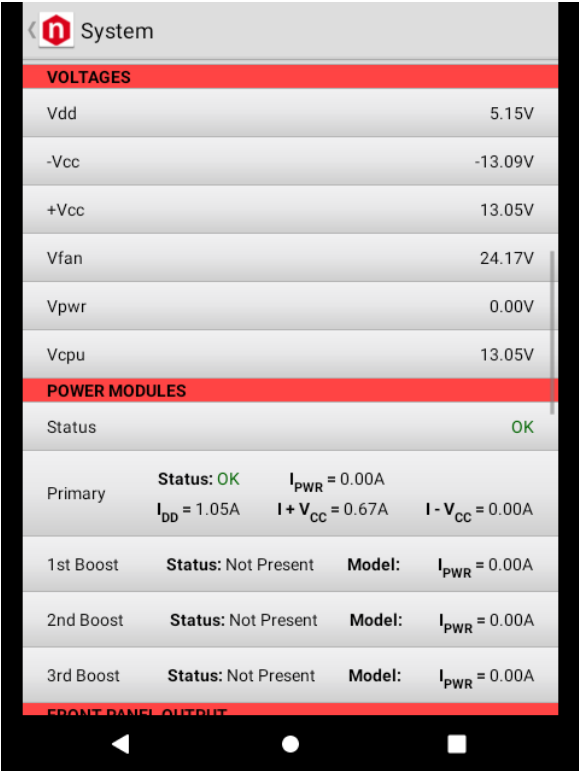
The page icons allow to navigate forward/back through the System Home:



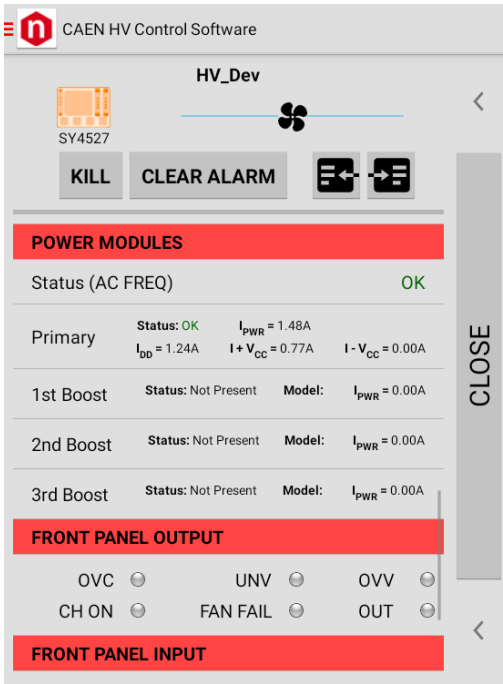
By tapping on page forward, it is possible to access the system settings, as follows:



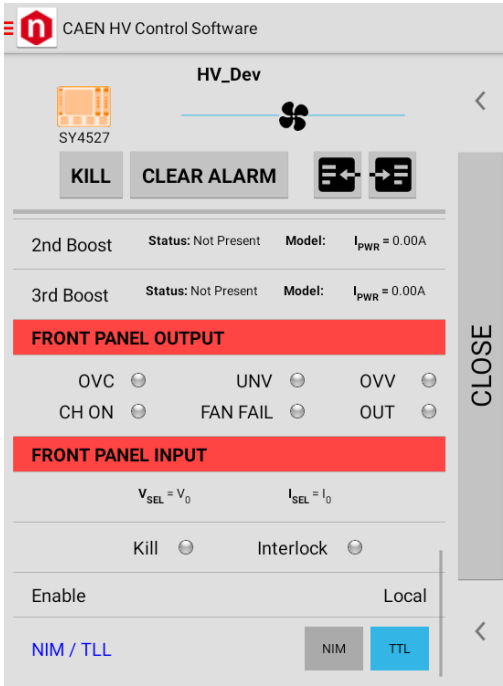
This option allows to monitor cooling fans status, and to set their speed.



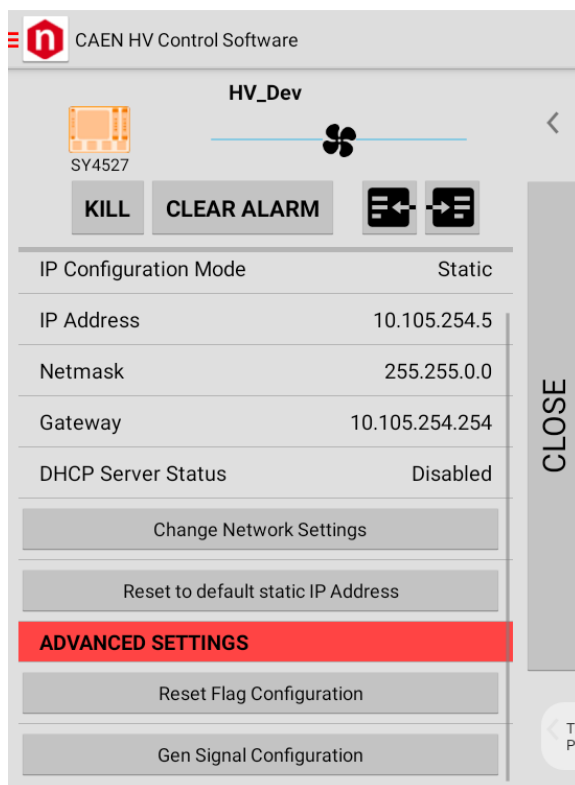
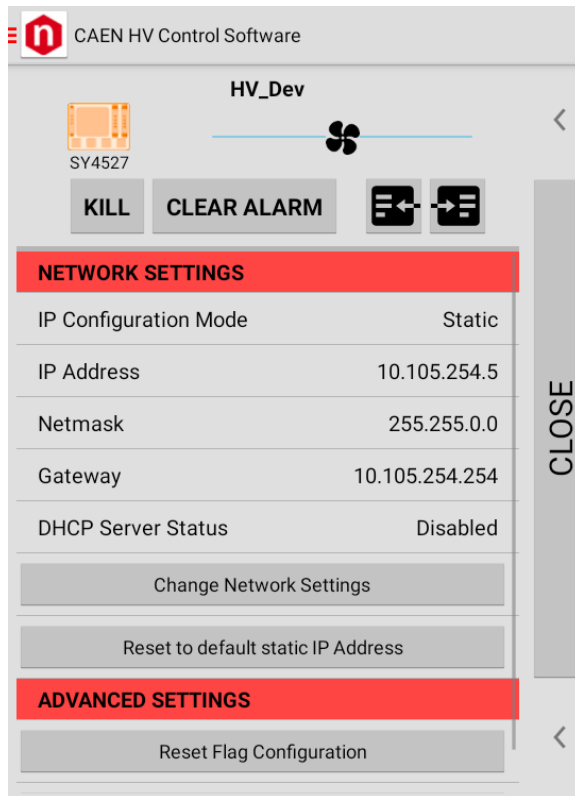
This option allows to monitor the voltage status of primary and booster power supplies



This option allows to monitor the front panel output status

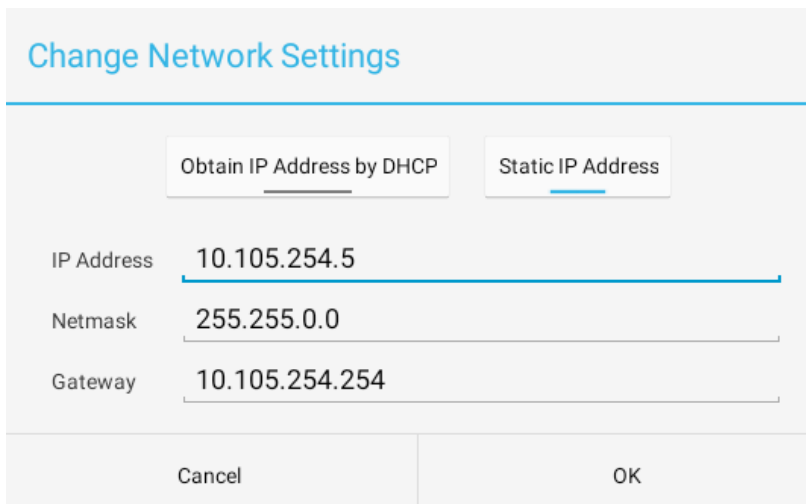


This option allows to monitor the front panel input status



This option allows to set and monitor the network and advanced settings

Tapping on “CHANGE NETWORK SETTINGS” opens this option:



Change Network Settings

Obtain IP Address by DHCP Static IP Address

IP Address 10.105.254.5

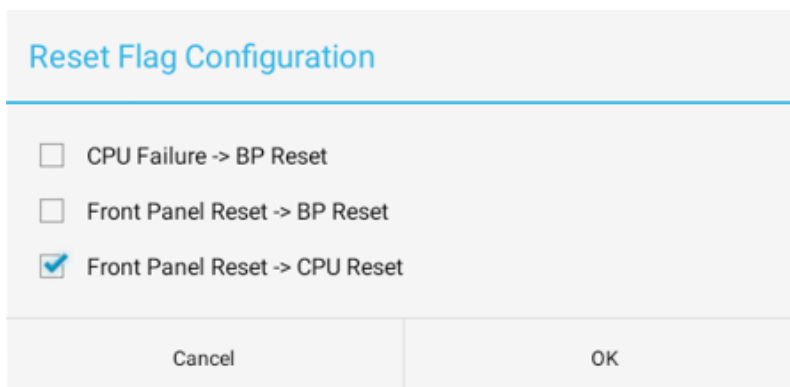
Netmask 255.255.0.0

Gateway 10.105.254.254

Cancel OK

When the new settings are written using the virtual keypad, click on OK to confirm or Cancel to discard.
Draw the finger to scroll the screen. Tap on "System" Icon (left high corner) to go back to System Home.

Tapping on "Reset Flag Configuration" opens this option:



Reset Flag Configuration

☐ CPU Failure -> BP Reset

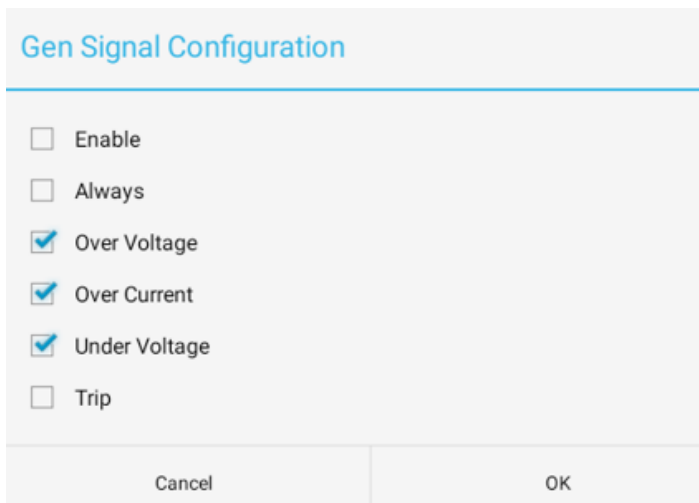
☐ Front Panel Reset -> BP Reset

☒ Front Panel Reset -> CPU Reset

Cancel OK

When the new settings are written using the virtual keypad, click on OK to confirm or Cancel to discard.
Draw the finger to scroll the screen. Tap on "System" Icon (left high corner) to go back to System Home.

Tapping on "Gen Signal Configuration" opens this option:



Gen Signal Configuration

☐ Enable

☐ Always

☒ Over Voltage

☒ Over Current

☒ Under Voltage

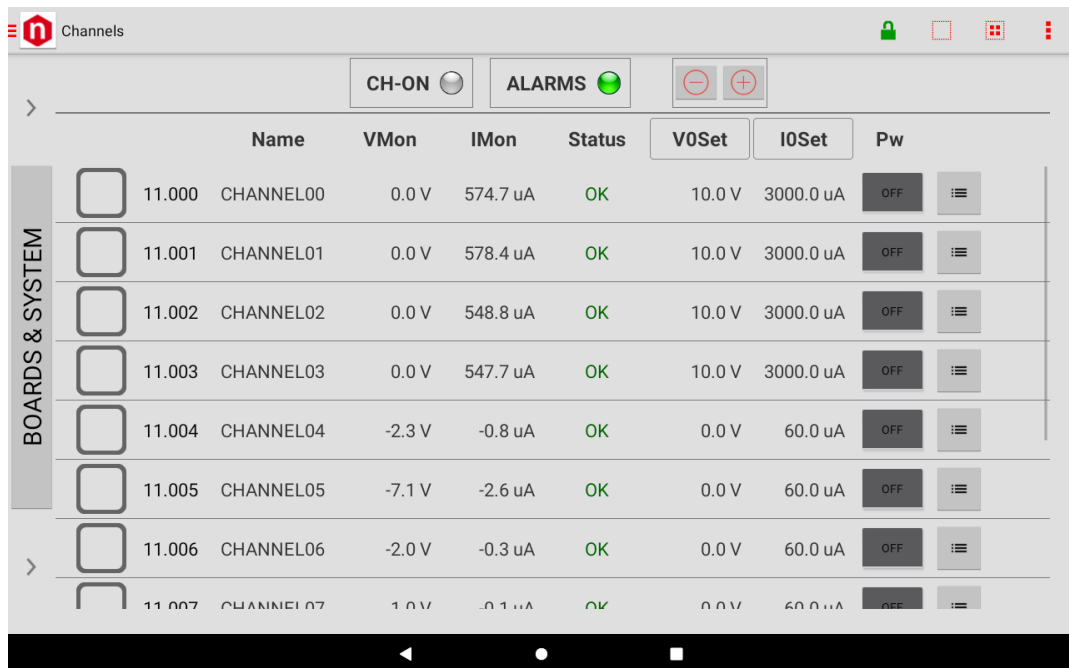
☐ Trip

Cancel OK

When the new settings are written using the virtual keypad, click on OK to confirm or Cancel to discard.
Draw the finger to scroll the screen. Tap on "System" Icon (left high corner) to go back to System Home

Channels Panel

Tapping on one Board's name on System Home, allows to access channels parameters and alarm messages (the example refers to A1522 board):



	Name	VMon	IMon	Status	V0Set	I0Set	Pw
<input type="checkbox"/>	11.000 CHANNEL00	0.0 V	574.7 uA	OK	10.0 V	3000.0 uA	OFF
<input type="checkbox"/>	11.001 CHANNEL01	0.0 V	578.4 uA	OK	10.0 V	3000.0 uA	OFF
<input type="checkbox"/>	11.002 CHANNEL02	0.0 V	548.8 uA	OK	10.0 V	3000.0 uA	OFF
<input type="checkbox"/>	11.003 CHANNEL03	0.0 V	547.7 uA	OK	10.0 V	3000.0 uA	OFF
<input type="checkbox"/>	11.004 CHANNEL04	-2.3 V	-0.8 uA	OK	0.0 V	60.0 uA	OFF
<input type="checkbox"/>	11.005 CHANNEL05	-7.1 V	-2.6 uA	OK	0.0 V	60.0 uA	OFF
<input type="checkbox"/>	11.006 CHANNEL06	-2.0 V	-0.3 uA	OK	0.0 V	60.0 uA	OFF
<input type="checkbox"/>	11.007 CHANNEL07	1.0 V	-0.1 uA	OK	0.0 V	60.0 uA	OFF

The main Channels Panel shows the board's channel list along with a subset of parameters (V0set, I0set, VMon, IMon); channels ON are highlighted in green; the "channel status" is written under the channel name. Each channel has a button on the right of the row for switching ON/OFF.

To access all monitor/set options, tap the  button and the full list will be displayed:

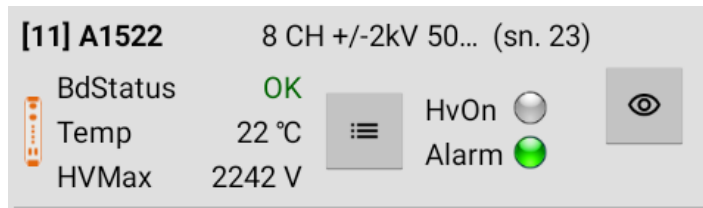



Board 0 > Ch 7	
Name	CHANNEL07
I0Set	3000.0 uA
V0Set	1000.0 V
IMon	0.0 uA
VMon	1.0 V
Pw	Off
Status	
RUp	500 V/s
RDWn	500 V/s
Trip	10.0 s
I1Set	300.0 uA
SVMax	3500 V
POn	Dis
PDwn	Kill
Triplnt	

By tapping the relevant row, it is possible to edit the set parameters (displayed in blue). Monitor parameters names are written in black. Please refer to the board user's manual for the full list of available parameters.

Board Panel

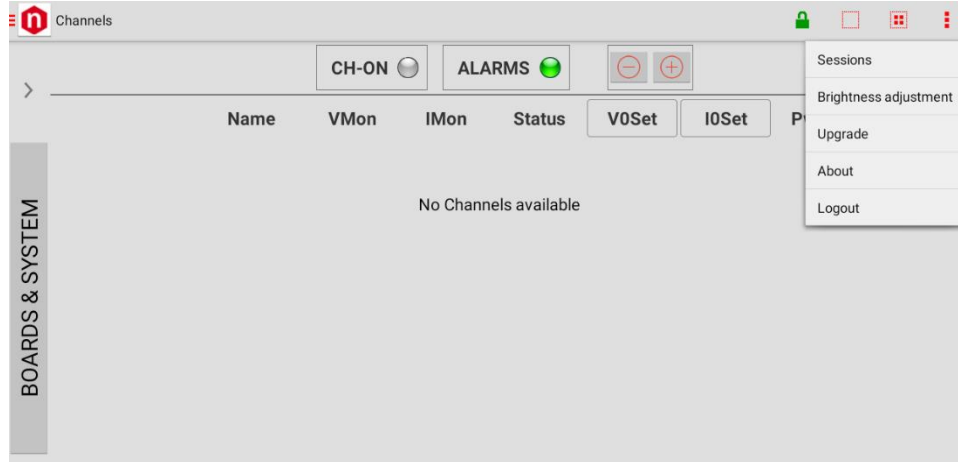
With reference to the Board box:



Tapping the  button allows to access the board parameters.

4 Additional Options

To access other options, go to System Home, tap the “options” icon in the upper right corner:



Tap one option to access it.

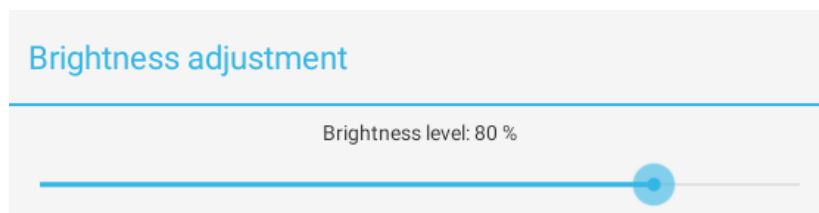
Sessions

The Session option shows the parameters of the connected Users sessions.

Sessions				
User	Level	Com Type	Login Time	Ip Address
admin	admin	TCP/IP	Fri Dec 14 15:03:11 2012	
admin	admin	TCP/IP	Fri Dec 14 17:18:49 2012	

Brightness Adjustment

This option allows the set the display brightness:



Upgrade

The Upgrade option allows to update the software version of the A5534; to do this:

- Connect the USB memory storage device containing the upgraded software version to the A5534
- Select “upgrade”
- Browse the updated software and select “upload”

About

Provides software version and agreement licence.

Log out

It allows to disconnect from the System. If the System remains idle for 30 minutes, Log out occurs automatically.



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