



# SmartBoard data sheet

## Highlights

The SmartBoard10 is a programmable

- 10 SIM cards interface able to select SIM card used by the smartphone.
- Power source interface able to select how smartphone is powered through USB: PC USB, AC/DC or no power.

The SmartBoard10 is perfect for environments where multiple SIM cards need to be tested on the same smartphone without any manual action to change the card.

It is also dedicated for Power measurement activities by switching automatically from no charging to PC charging or AC/DC charging.

Best example of use cases:

- Smartphone testing on several Networks / Carriers
- Smartphone testing with several SIM cards (i.e. different provisioning, different parameters)
- Smartphone Battery charging. USB device charge, device burn in and even production testing.

## Features

- 10 (Micro/Nano) SIM slots
- SIM Flex compatible to any Device SIM slots
- Each SIM slot can be individually enabled and disabled (only one at a time)
- Device charging can be disabled, enabled through PC USB charging inputs or enabled through AC/DC charging inputs
- Device USB output (Type-A connectors)
- Fast charge up to 5A
- PC USB input (mini-B connectors)
- AC/DC USB input (mini-C connectors)
- Power supply is provided through PC USB input

## Accessories

The Smart Audio Box is supplied with

- One USB power cable
- One microUSB / USB type-C adapter
- One SIM flex according to the customer configuration\*

\*8 types of flex are possible (4 microSIMs, 4 nanoSIMs) to cover all types of slots.

## Software control

SmartBoard10 is controlled through serial commands that can be easily added into scripts (Python for instance) or programs (C/C++ for instance).

Demo scripts are provided within synchroviSer tools.

List of commands:

Command	Response	Explanation
<b>VERSION?</b>	smartBOARD V<x> JJ/MM/AA	<x>: number of version + date
<b>PWROFF</b>	CMD OK	Power deactivated
<b>PWRPC</b>	CMD OK	Power PC activated
<b>PWREXT</b>	CMD OK	Power Ext activated
	CMD KO	Problem, no power ext
<b>SIMOFF</b>	CMD OK	Disable all SIM cards
<b>SIM&lt;x&gt;</b>	CMD OK	Select SIM at location <x>
	CMD KO	Unable to switch, SIM not present
<b>ISSIM&lt;x&gt;?</b>	TRUE	SIM card presence at location <x>
	FALSE	No SIM card
<b>ISPWREXT?</b>	TRUE	External power supply (+5V) present
	FALSE	No external power supply
<b>ISFLEX?</b>	TRUE	FLEX cable connected
	FALSE	FLEX cable not connected
<b>UPDATE</b>		Firmware update
<b>SIMPRES?</b>	SIM :X ;X ;X ;...	Returns occupied location numbers
<b>DISABLESIMPRES</b>	CMD OK	Disabling SIM verification
<b>ENABLESIMPRES</b>	CMD OK	Enabling SIM verification
	CMD ERR	Invalid command

## Smart companion family

- SmartHub4 (programmable 4 ports USB hub)
- SmartHub8 (programmable 8 ports USB hub)
- SmartBoard10 (programmable 10 SIM slots and USB power switch)