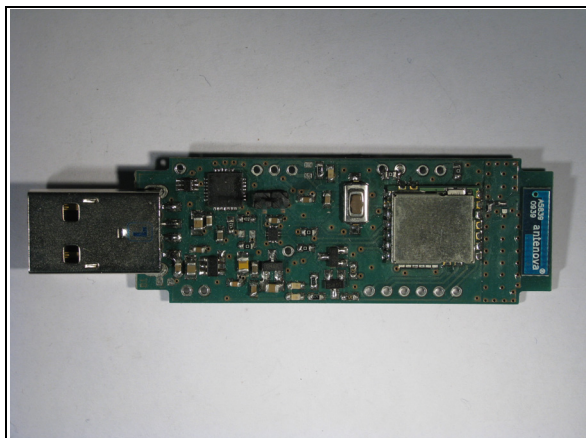

USB dongle for the SPBT2632LC2 Bluetooth® class 2 module

Data brief

**Description**

The STEVAL-SPBT5ATL1 product evaluation board is a design tool to evaluate the SPBT2632LC2 module in a quick and simple way.

The dongle includes an RF antenna and a USB connector. The USB connector is used to connect the dongle to a PC, to access the Bluetooth module, and to supply the dongle.

The STEVAL-SPBT5ATL1 includes downloadable FW, enabling the user to create a Bluetooth link with simple AT commands.

The STEVAL-SPBT5ATL1 is an demonstration tool only, to be used strictly for evaluation purposes.

Features

- Based on the SPBT2632LC2 V3.0 Bluetooth® class 2 module
- USB interface and power supply
- Supports reprogrammability via USB interface
- Reset button
- On-board antenna
- RoHS compliant

1 Recommended operating conditions

Table 1. Recommended operating conditions

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Unit
V _{DD}	Board supply voltage	-40 °C < T < 85 °C	4.5	5	5.5	V
T _{op}	Operating case temperature range		-40		+85	°C

2 Dongle layout

Figure 1. Dongle component layout, front side

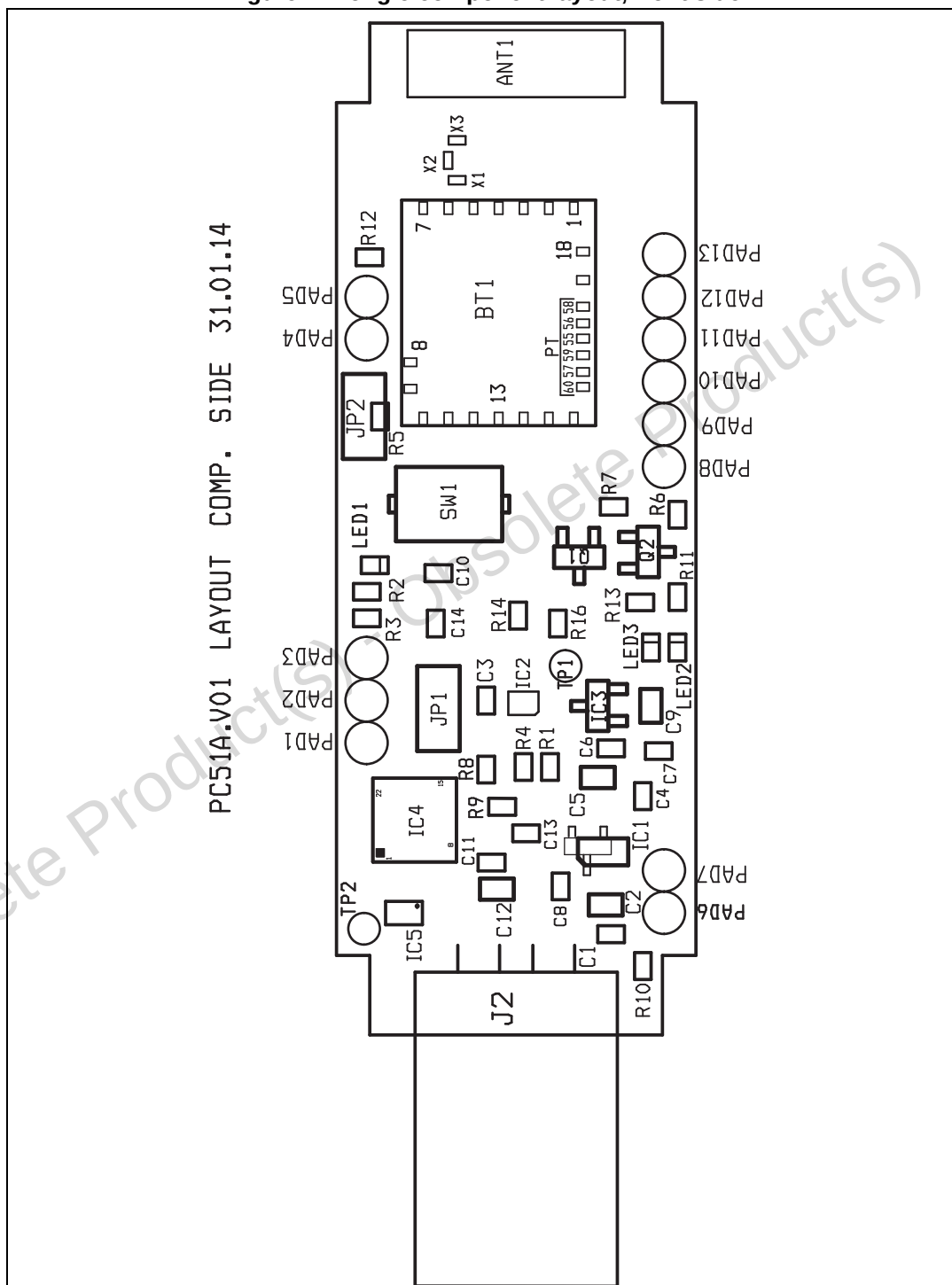
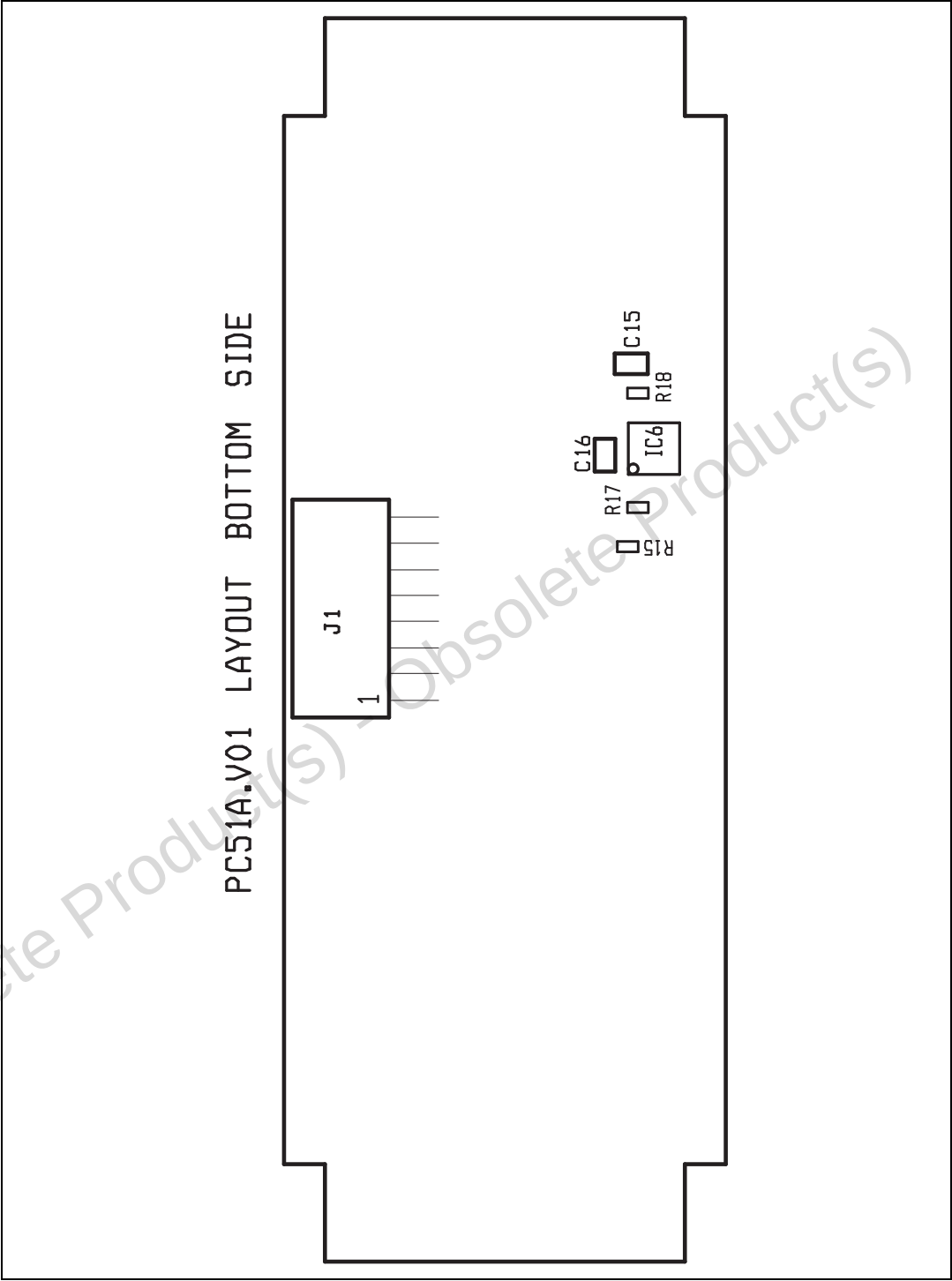


Figure 2. Dongle component layout, bottom side



3 I/O connections

3.1 PAD description

In addition to the USB plug, several pads are also available. PAD1 to PAD13 make the SPBT2632LC2 pins available to the user.

Figure 3. Available pads



[Table 2](#) provides a description of these pads.

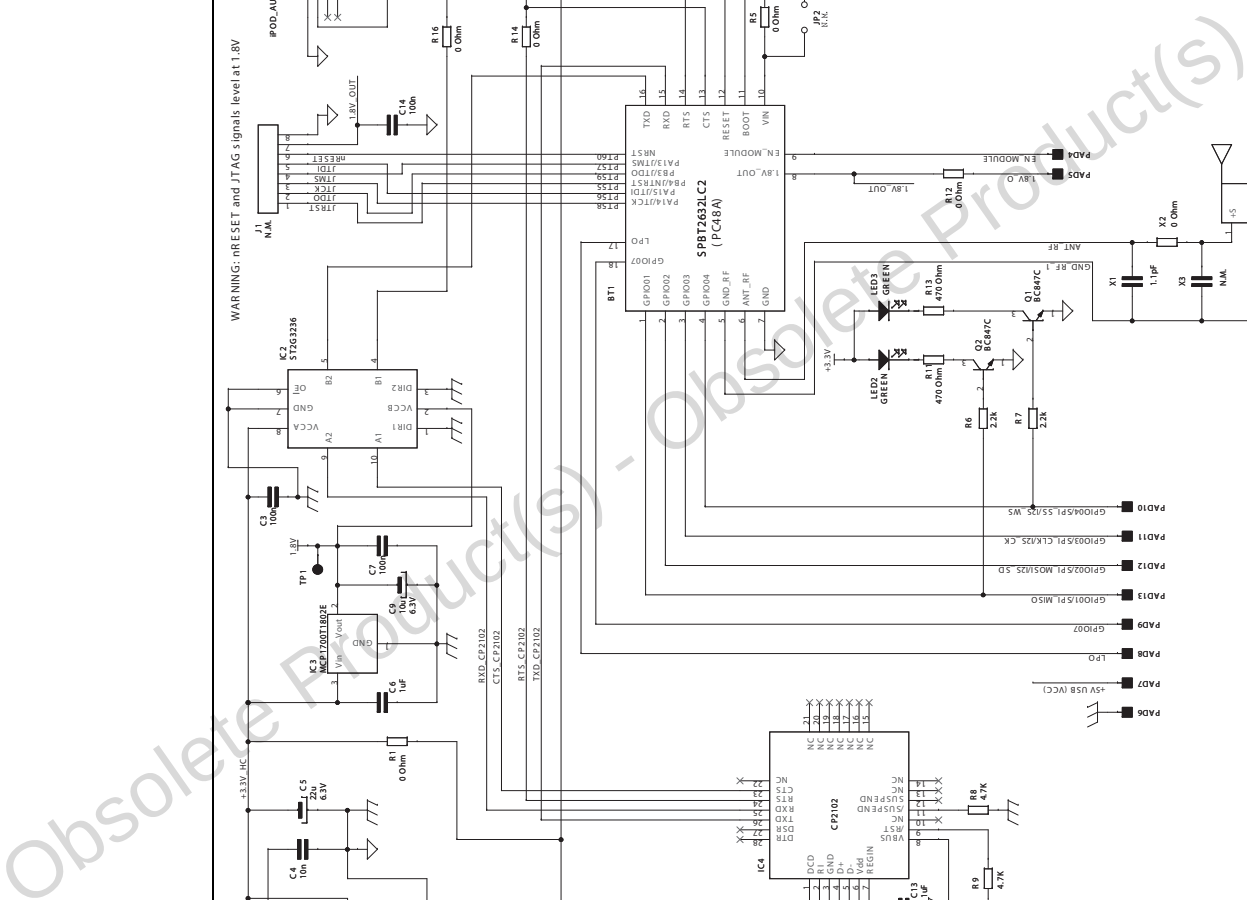
Table 2. Pad connections

Description		
(PAD)	1	BOOT0 - Boot pin for firmware downloading - used for testing purposes
	2	3.3 V (module – LED1 is connected to this PAD)
	3	RESETN - reset - connected in parallel to on-board reset switch
	6	GND
	7	+5 V (USB)
	8	LPO (external 32.768 kHz frequency input to allow deep sleep and sniff mode Bluetooth module functional states)
	9	GPIO07 – general purpose I/O
	13	GPIO01 – general purpose I/O (see note) (LED2 is connected to this GPIO)
	12	GPIO02 – general purpose I/O (see note)
	11	GPIO03 – general purpose I/O (see note)
	10	GPIO04 – general purpose I/O (see note) (LED3 is connected to this GPIO)
	4	Module enable (H=ENABLED, L=DISABLED)
	5	1.8 V Module internal regulator output (max 10 mA)

Note: Default configuration - different configurations can also be chosen (see datasheet).

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Figure 4. Dongle electrical circuit diagram



5 Revision history

Table 3. Document revision history

Date	Revision	Changes
22-Oct-2014	1	Initial release.

Obsolete Product(s) - Obsolete Product(s)

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