

uSmart10 – Version 2.0

Bluetooth Low Energy ® module

uSmart 10

Features

- Bluetooth LE Module
- Based on TI® CC2540
- User programable with BLE profiles
- FCC, IC and CE compliant

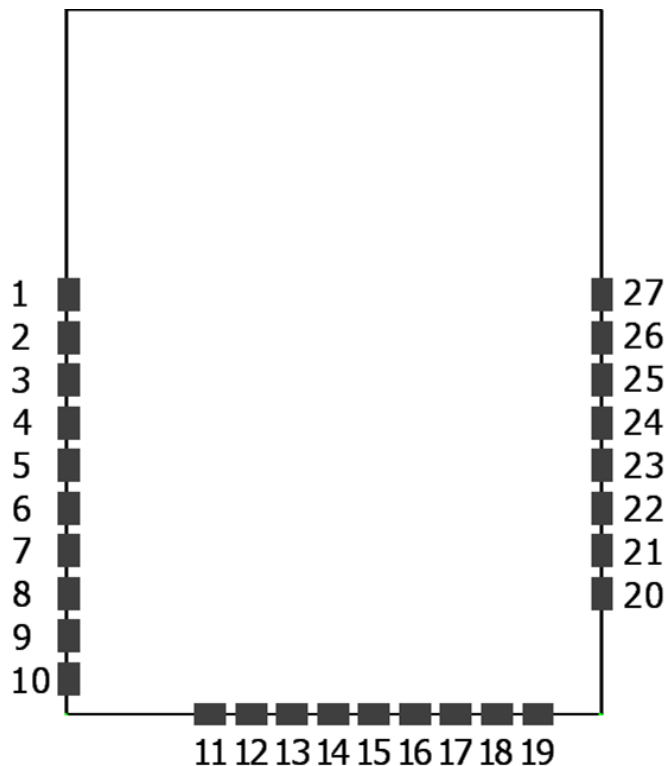
Applications

- BLE compatible accessories

Product image



Pinout



(TOP VIEW)

uSmart10 – Version 2.0

Bluetooth Low Energy ® module

PIN NUMBER	INTERNAL NAME
1	P24 / OSC32K
2	P23 / OSC32K
3	DCLK
4	DDAT
5	P20
6	P17
7	P16
8	PUSBCL_P
9	PUSBCL_N
10	D_USB
11	P15
12	P14
13	P13
14	P12
15	P11
16	GND
17	P10
18	PG_EXT_RESET
19	VCC
20	P07
21	P06
22	P05
23	P04
24	P03
25	P02
26	P01

uSmart10 – Version 2.0*Bluetooth Low Energy ® module*

27

P00

Firmware upload interface

- DCLK, DDAT, VCC, GND and PG_EXT_RESET is the interface to upload new firmwares to module.

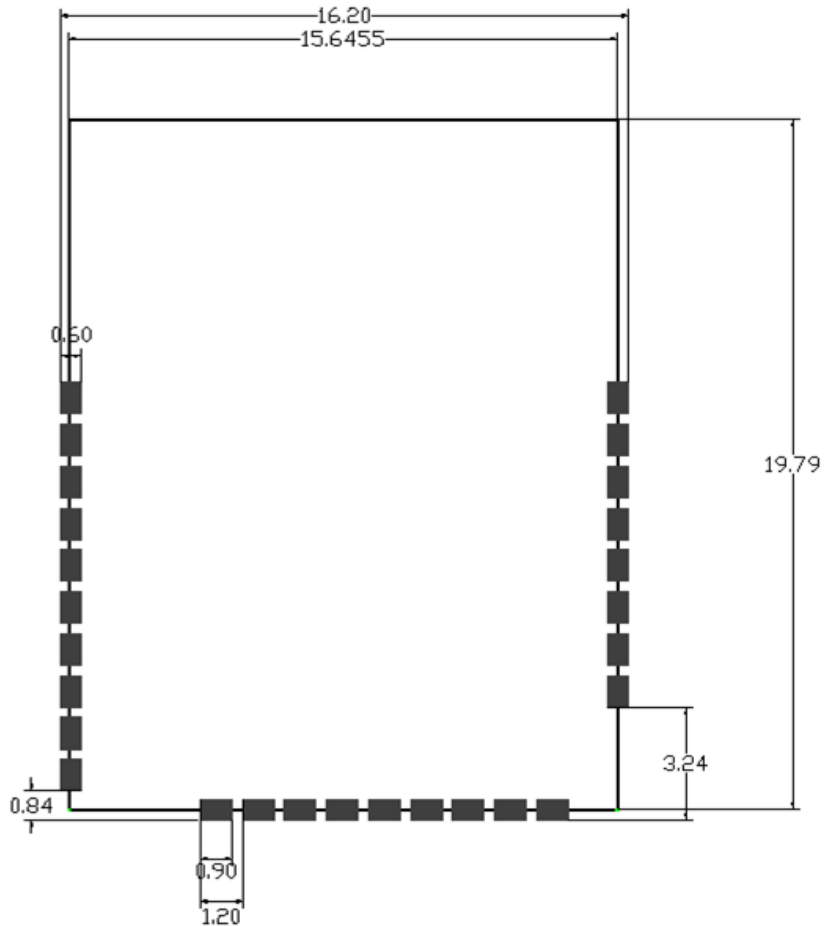
Optional low frequency clock

- Opcional 32.768 Hz clock can be connected to perform 500 nA of current consumption in low power mode. Crystal may be connected in pins 1 and 2.
 - Maximum crystal tolerance +/-40 ppm.
 - ESR 40 to 130 kOhms
 - Maximum shunt capacitance 2pF.
 - Load capacitance up to 16pF.

Dimensions (in mm)

uSmart10 – Version 2.0

Bluetooth Low Energy ® module



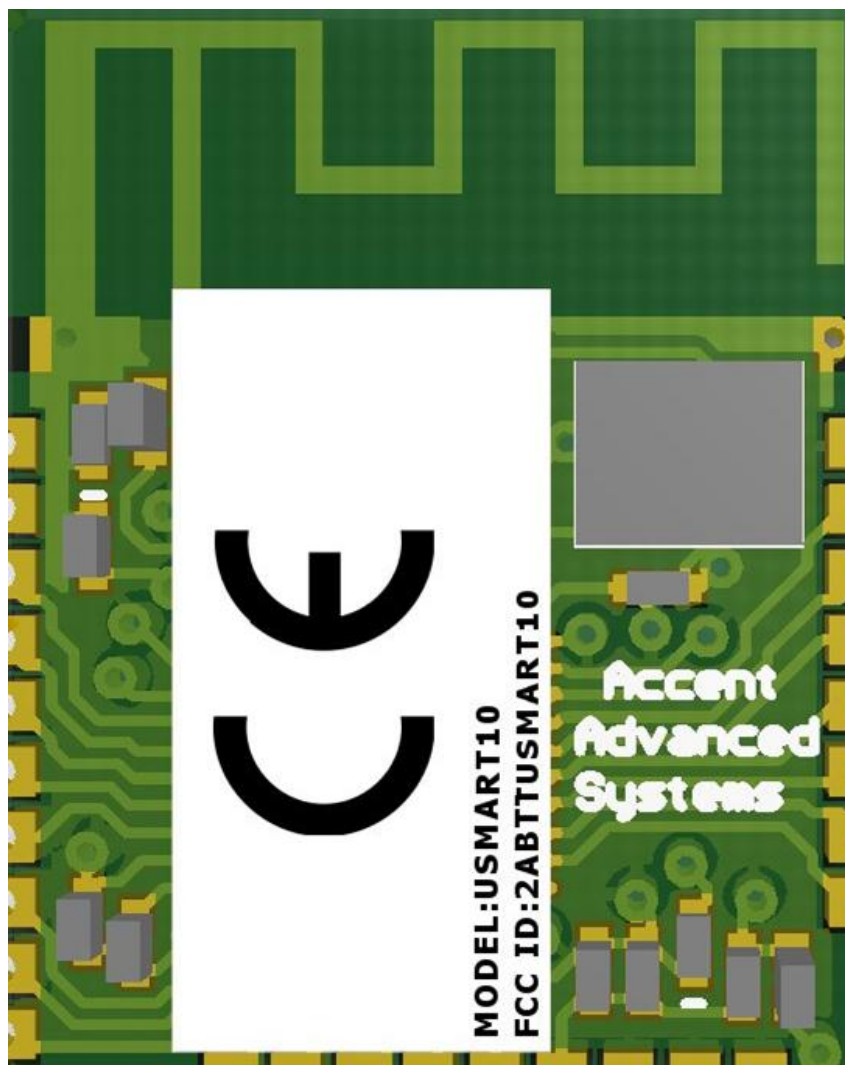
Compliance information

Specification	Compliance
FCC	
IC	
CE	
RoHs	

uSmart10 – Version 2.0

Bluetooth Low Energy ® module

Label information



uSmart10 – Version 2.0

Bluetooth Low Energy ® module

1. FCC Caution:

"Changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment."

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2. FCC Statement:

"This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help."