USB dongle

FSC-BP101Y Datasheet

1. Features

- Bluetooth 5.2 Classical/BLE Proprietary double-mode RF SOC
- UART programming and data interface (baud rate default 115200 bps)
- I2C/USB interfaces
- Digital Peripherals
    - Two-wire Master (I2C compatible), up to 400kbps
    - LED drive capability
    - AES256 HW encryption
    - USB2.0 fullspeed,4Eps, support host mode
- Dual Core Digital Architecture
    - ARM Cortex-M0 Core for application
    - CPU clock speed up to 192Mhz
- 2.4GHz Transceiver
    - Single-end RFIO
    - -95dBm in BLE mode
    - Support 250kbps, 1/2/3 Mbps data rates
    - Tx Power 0dBm
- Postage stamp sized form factor
- Working current is 5mA
- RoHS compliant

Picture

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2. Parameter Characteristic

Specifications	Description
General	Feasycom's USB dongle Solution
Major Profiles	SPP/BLE
	USB POS
	USB KEYBOARD
	USB CDC
	USB POS+ USB KEYBOARD
Bluetooth Version	Bluetooth v5.2 Dual mode
Frequency	2.400 - 2.480 GHz
Transmit Power	+5 dBm (Maximum)
Receive Sensitivity	-95 dBm (Typical)
Raw Data Rates (Air)	3 Mbps
Modulation	GFSK
Profiles Maximum Connections	Classic Bluetooth: Support
	Bluetooth Low Energy: Support
	Classic Bluetooth: 1 Clients
	Bluetooth Low Energy: 1 Clients
Antenna	Type: PCB Coil antenna
	Gain: 2dBi (Max)
	Radiation diagram: Omnidirectional
Power supply	USB
Voltage	5V(typ.)
Material	ABS plastic
Color	BLACK or WHITE
Size	32.8x16.2x8.2 mm
Protection	IP40
Operating temperature	-10°C to +70°C
Storage temperature	-10°C to +70°C

Feasycom reserves the right to change product specifications at any time without prior notice.

3. Statement

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If necessary, please contact Feasycom or visit https://www.feasycom.com/ to get more relevant information.

4. Contact Information

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5. Revision History

Version	Changes	Author
1.0	Initial Release	Origami
1.1	Update the temperature and Bluetooth version	Origami