

April 2015

Micro Modules

(Substrates with Built-in ICs, Products Utilizing with SESUB)

Bluetooth V4.0 Smart Single Mode Module

SESUB-PAN-T2541

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Overview of SESUB-PAN-T2541

FEATURES

- Micro size (4.6×5.6×1.0mm) ideal for wearable devices.
- Ocommunicable with Bluetooth® Smart Ready compatible devices.
- O Separate antenna type that provides more flexibility for product design.

APPLICATION

- O Health care, sports & fitness devices (physical activity monitor, thermometer, blood pressure monitor, blood oxygen monitor, blood sugar monitor, heart rate monitor, etc.)
- Wearable computers

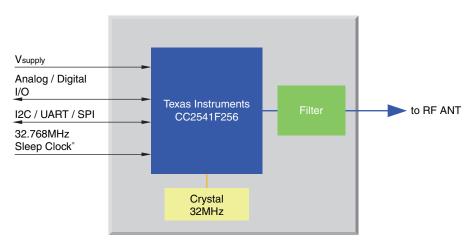
(bracelet type, watch type, ring type, glass type, shoe, hat, shirt, etc.)

- Home & entertainment devices (remote control, sensor tag, toy, lighting apparatus, etc.)
- PC accessories (mouse, keyboard, stylus pen, presentation pointer, etc.)





BLOCK DIAGRAM

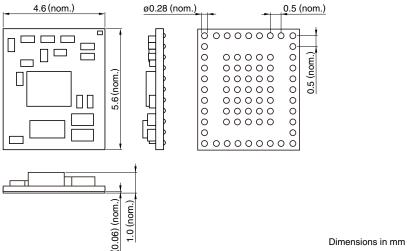


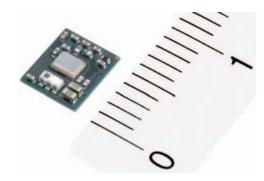
○ Bluetooth® and Bluetooth® Low Energy are the standards established by Bluetooth Special Interest Group (SIG).



SESUB-PAN-T2541

SHAPE & DIMENSIONS





ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Communication standards	2.4GHz Bluetooth® V4.0 low energy
Wireless output power (dBm)typ.	0
Communication range (m)*	10
Interface	UART/SPI/I2C/GPIO/ADC

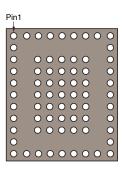
^{*} Line-of-sight distances. Depending on antenna properties.

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MODULE TERMINAL

1 GND	2 P2_1	3 P2_0	4 VDO	5 VDA_1	6 VDA_2	7 GND	8 RST_N	9 GND
36 P2_2								10 P0_0
35 GND		GND	GND	GND	GND	GND		11 P0_1
34 P2_4/32k		GND	GND	GND	GND	GND		12 P0_2
33 P2_3/32k		GND	GND	GND	GND	GND		13 P0_3
32 P1_7		GND	GND	GND	GND	GND		14 P0_4
31 P1_6		GND	GND	GND	GND	GND		15 P0_5
30 P1_1		GND	GND	GND	GND	GND		16 P0_6
29 P1_2		GND	GND	GND	GND	GND		17 P0_7
28 P1_3								18 P1_0
27 GND	26 SCL	25 SDA	24 P1_4	23 P1_5	22 GND	21 2G_RF	20 GND	19 GND

RF	
POWER	
Clock	
I/O	
Cont	
GND	

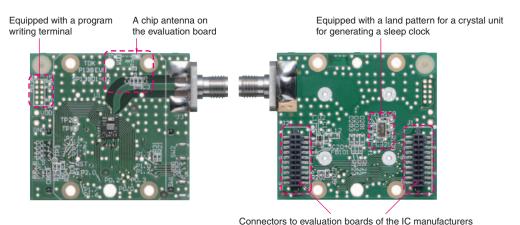


Module Bottom View

EVALUATION BOARD

Based on the IC manufacturer-provided evaluation environment (TDK part number: SP13801)

- The product is used by connecting to the IC evaluation kits of IC manufacturers.
- All software development environments and programming tools are provided by IC manufacturers.
- O Various development materials of IC manufacturers are available as they are, which enables smooth development of products.
- We also offer evaluation kits which enables to evaluate product functions easily. (TDK part number: SP13808)
- * For more details, please contact us.



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TDK:

SESUB-PAN-T2541 S.B. SESUB-PAN-T2541 EVK SP13808 SP13801 SP13808ST