imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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August 2016

Micro Modules

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

Bluetooth V4.0 Smart Single Mode Module

SESUB-PAN-T2541

⊗TDK

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

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading. For product inquiries: SESUB_Support@tdk.co.jp

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

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

Bluetooth V4.0 Smart Single Mode Module

Overview of SESUB-PAN-T2541

FEATURES

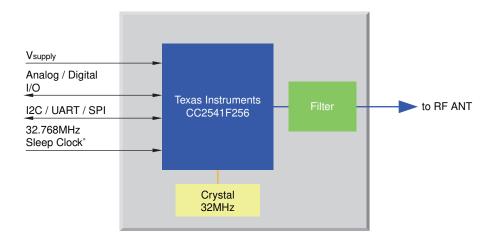
- \bigcirc Micro size (4.6×5.6×1.0mm) ideal for wearable devices.
- Communicable with Bluetooth[®] Smart Ready compatible devices.
- O Separate antenna type that provides more flexibility for product design.

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.)

BLOCK DIAGRAM

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



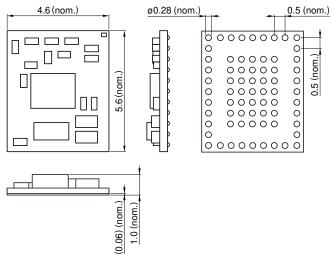


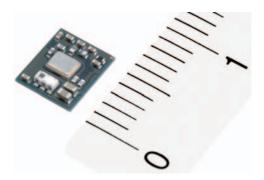


Micro Modules (Substrates with Built-in ICs, Products Utilizing with SESUB)

SESUB-PAN-T2541

SHAPE & DIMENSIONS





Dimensions in mm

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			

 \ast Line-of-sight distances. Depending on antenna properties.

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Micro Modules (Substrates with Built-in ICs, Products Utilizing with SESUB) & TDK

SESUB-PAN-T2541

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	

Pin1								
0	0	0	0	0	0	0	0	0
0								0
0		0	0	0	0	0		0
0		0	0	0	0	0		0
0		0	0	0	0	0		0
0		0	0	0	0	0		0
0		0	0	0	0	0		0
0		0	0	0	0	0		0
0		0	0	0	0	0		0
0								0
0	0	0	0	0	0	0	0	0

Module Bottom View

EVALUATION BOARD

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

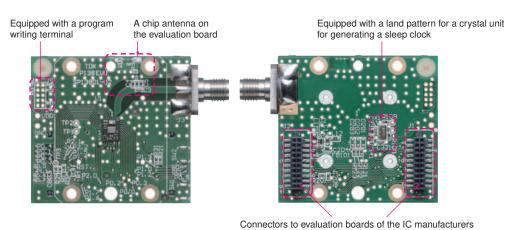
 \bigcirc The product is used by connecting to the IC evaluation kits of IC manufacturers.

O 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.

O 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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