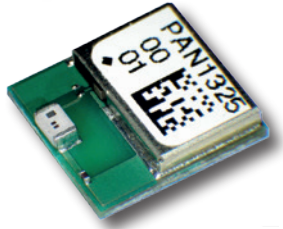


BLUETOOTH 4.0 LE DUAL MODE HCI (SMART READY) MODULE PAN1326



FEATURES

- » Communicates with BT Low Energy single mode devices
- » Best-in-class Bluetooth RF performance (Tx, Rx sensitivity, blocking)
- » Fully Qualified Bluetooth v4.0 EDR, FCC and IC listed, CE complied
- » Dimensions: 9.0mm×9.5mm×1.8mm (W×L×H)
- » Operating Temperature Range: -20°C to +70°C
- » Supply Voltage Range: 1.7 - 4.8 V
- » Based upon TI's CC2564
- » Profiles: SPP, HDP, Audio and others can run on the host processor (integrates with TI's ultra low-power MSP430 μP)
- » Very fast algorithm for both ACL and eSCO
- » Supports extended range Tx power with 10.5 dBm typ. output
- » Low power scan method and inquiry scans at 1/3rd normal power

Interfaces

- » 3.25 MBaud UART with transport layer detection (HCI UART, HCI Three and Four Wire UART)
- » PCM/I2S interface for digital audio

APPLICATIONS

- » All wireless applications, e. g. medical applications, printers, scanners, PDAs, access points, wireless sensors, industrial applications, PC motherboards & peripherals, mono and stereo audio applications

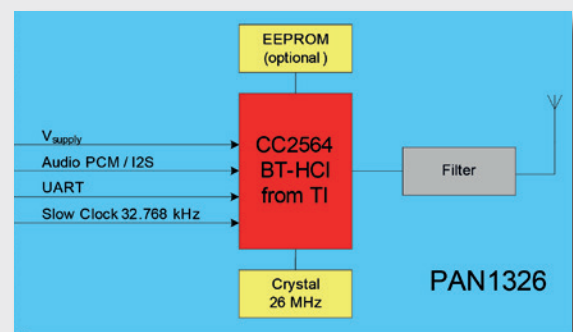
Panasonic's new PAN132x Host Controlled Interface

(HCI) Bluetooth Low Energy dual mode module brings Texas Instrument's seventh generation Bluetooth core integrated circuit, the CC2564, to an easy to use module format. Panasonic's tiny footprint technology has produced a module of only 85.5mm². The module is designed to accommodate PCBs pad pitch of 1.3mm and as little as two layers for easy implementation and manufacturing.

This module has been designed to be 100% pin compatible with the previous generation of Bluetooth Classic devices PAN1325. This unique design feature provides the possibility to seamlessly switch Bluetooth classic products to Bluetooth low energy.

The **PAN1326** connects mobile devices such as cellular phones and small button cell battery powered devices like fitness sensors, watches, and healthcare accessories. It can be easily implemented and creates a data chain from Bluetooth low energy to Bluetooth classic devices.

BLOCK DIAGRAM



SPECIFICATIONS

PARAMETER	VALUE	CONDITION/NOTE
Receiver sensitivity (BER=10 ⁻³)	-93 dBm	ideal wanted signal
Output power	10.5 dBm typ.	max. 4 dBm for BT Class 2
Power supply	1.7 ... 4.8 V	Battery or DC/DC
Ultra low power scan	135 μA	1.28 s interval
eSCO Link 2-EV3	8.3 mA	Enhanced data rate, 544.0 kb/s *1
EDR 3-DH1\3-DH5	39.2 mA	Enhanced data rate, 544.0 kb/s *1
Operating temperature	-20°C ... +70°C	

*1 Figure indicates maximum possible data rate with this packet type