

NEW! PAN1325A/1315A SERIES BLUETOOTH® HIGH TEMPERATURE MODULES

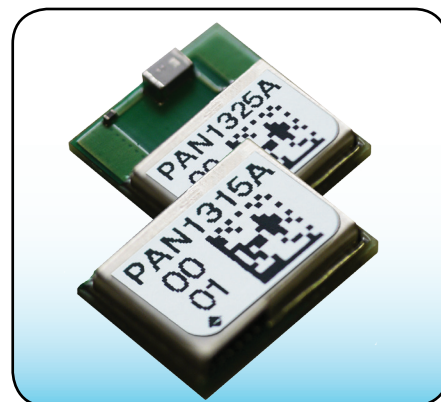
Texas Instruments NEW CC2560A Bluetooth IC In An Easy-To-Use Module Format

Introducing the **NEW PAN1325A/1315A Series** Bluetooth RF Modules from Panasonic, now providing Texas Instruments' **NEW CC2560A** controller in an easy-to-use RF Module format with Bluetooth, FCC, IC and CE certifications. A ROM update from Texas Instruments to the already popular PAN1325/1315 Series. The **NEW PAN1325A/1315A Series** Modules has increased power and system efficiency resulting from reduced initialization script size, start-up time and decreased system memory requirements.

All of Panasonic's Bluetooth RF Modules feature unique, tiny footprint technology and are designed to accommodate PCBs with pad pitch of 1.3mm with as little as two layers for easy implementation and manufacturing. With or without an embedded antenna, the **NEW PAN1325A/1315A Series** provides easily integrated Bluetooth connectivity into new and current designs by removing RF design and certification barriers from the application.

As the newest addition to Panasonic's Host Controlled Interface (HCI) Bluetooth RF Module product line, the **PAN1325A/1315A Series** has all the features of the existing and proven PAN1325/1315 Series but with the added benefits of the improved efficiency.

An updated initialization script is required for modules based on the CC2560A. Compatibility of CC2560 and CC2560A based products is a function of Bluetoothstack firmware residing on the host processor.



BT component, CE and FCC certified.
(ETSI and IC certifications are pending.)



Product Performance:

- Best-in-class Bluetooth RF performance (Tx power, Rx sensitivity, blocking)
- Fully Qualified Bluetooth v2.1 EDR
- Dimensions PAN1325A: 9mm x 9.5mm x 1.8mm (width x length x height)
- Dimensions PAN1315A: 6.5mm x 9mm x 1.7mm (width x length x height)
- Certifications: Bluetooth, CE, FCC
- Operating Temperature Range: -40°C to +85°C
- Supply Voltage Range: 1.7 - 4.8V
- Profiles: SPP, HDP, A2DP
- Based upon TI's CC2560A
- Integrates with TI's ultra low-power MSP430 microprocessor
- Very fast algorithm for both ACL and eSCO
- Supports Extended Range Tx power with 10dBm typical output (10dBm for PAN1315)
- Low power scan method for page and inquiry scans at 1/3rd normal power

PAN1325A and 1315A Part Numbers:

Part Numbers	Description
ENW-89829A2KF	PAN1325A, CC2560A, HCI Module, Antenna
ENW-89829C2KF	PAN1315A, CC2560A, HCI Module, No Antenna

Development and Evaluation Part Numbers:

Part Numbers	Description
ENW-89825A2JF	PAN1323ETU, Development Module for PAN1315, PAN1316, PAN1317, PAN1325, PAN1326, PAN1327
EVAL_PAN1323	EVAL_PAN1323, Development Kit for PAN1315, PAN1316, PAN1317, PAN1325, PAN1326, PAN1327

Panasonic

Interfaces:

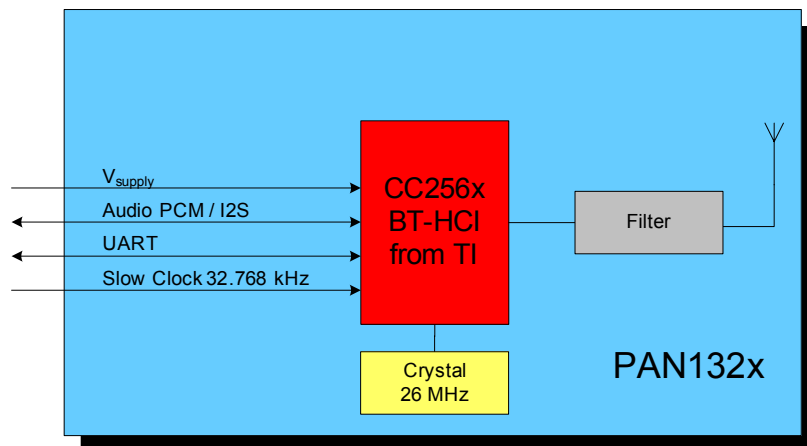
The PAN1325A/PAN1315A Host Controlled Interface supports several transport layers with the following features:

- UART Rates of up to 4Mbps
- Three and Four Wire UART Transport

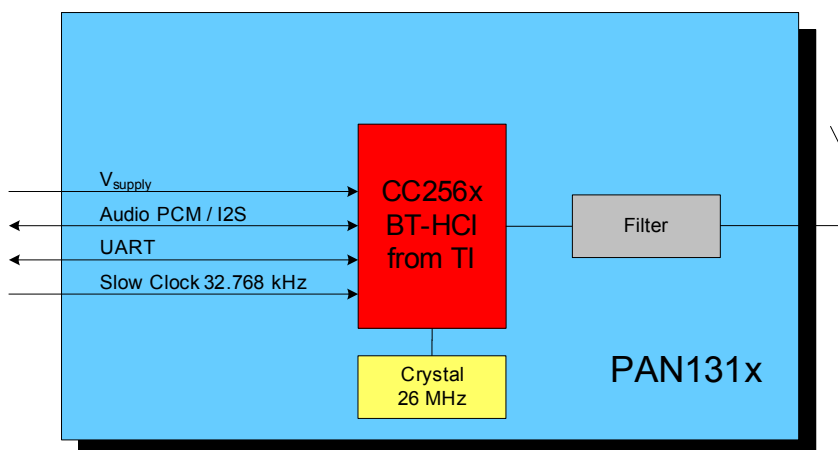
Applications:

- Consumer Health Devices
 - Heart Rate Monitor
 - Blood Pressure Sensor
 - Blood Glucose Meter
 - Thermometer
 - Fitness Sensors
- Assisted Living
 - Flood Alarm
 - Heating Control
 - Automatic Key Control
- Industrial Sensors
- Toys
- Entertainment Devices
- Mobile Accessories
- All Bluetooth Wireless Applications

Block Diagram PAN1325A:



Block Diagram PAN1315A:



Technical Specifications:

Parameter	Value		Condition / Notes
	PAN1325A	PAN1315A	
Receiver Sensitivity (BER=10 ⁻³)	-93 dBm	-93 dBm	GFSK, Typical, Dirty TX On
Output Power	10 dBm	10.5 dBm	VDD _{In} = VBAT
Power Supply	1.7 - 4.8 V	1.7 - 4.8 V	Battery or DC/DC
Ultra Low Power Scan	135 μ A	135 μ A	1.28s Interval
GFSK DH1\DH5	33 mA	33 mA	Full Throughput
Operating Temperature Range	-40°C to + 85°C	-40°C to + 85°C	

AMEYA360

Components Supply Platform

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