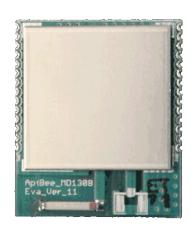


AptBee 2.4GHz 射頻通信控制模組



特點

- 2.4GHz 射頻收發
- 符合 IEEE 802.15.4/ZigBee PRO 2007 協定
- 256KB Flash , 8KB RAM 記憶體空間
- UART、SPI 與 I²C 通信介面
- 支援二種天線型式
- 低消耗功率
- 符合美國 FCC 規範
- 台灣 NCC 審驗合格

應用

- 家庭/建築自動化
- 工業控制與監測
- 室內定位應用
- 無線感測網路應用
- 物聯網應用

說明

APTZBM_1311 模組採用整合微控制器、2.4Hz 射頻收發、8KB RAM、256KB Flash 記憶體於同一元

件之低功耗 SoC 晶片。此模組具有 12-bit ADC 作為類比感測裝置輸入介面、三種不同的通信控制介面與二種天線型態可供選用。另有三種不同版本的韌體可安裝在此模組用以組成網狀網路(mesh network)。

結合此裝置與感測元件可做為建構物聯網或無線 感測網路應用之基礎。

規格

开口9点	ADT7D14 1201
型號 	APTZBM_1301
頻率	2.400 ~ 2.485 GHz
通度數	16
資料傳輸速率	250Kbps
最大輸出功率	4.5dBm
靈敏度	-97dBm
內建 Flash 記憶體容量	256Kbytes
內建 RAM 容量	8Kbytes
電源	2 ~ 3.6VDC
最大消耗電流	34mA
靜態消耗電流	0.4uA
建議操作環境溫度	-30 ~ 85°C
天線類型	晶片形天線或 U.FL 連接座
輸出入埠	8 通道 12-bit ADC
周邊介面	UART, SPI 與 I ² C
通訊協定	IEEE 802.15.4 PHY, ZigBee PRO 2007
韌體版本	Coordinator, Router, End Device
符合通信規範	FCC, NCC(Taiwan)
尺寸(mm)	27(長) 23(寬) 3.5(高)

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