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Telos IEEE 802.15.4 Module

The world's first IEEE 802.15.4 compliant wireless sensor network device for use in low power applications and mesh networks

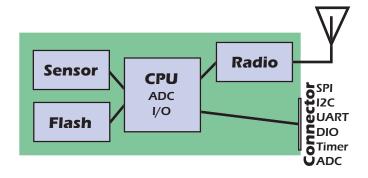




Designed at the University of California, Berkeley, by TinyOS integration between the hardware and the TinyOS operating system. TinyOS is a small, open-source, component-based operating system also developed at UC Berkeley. TinyOS was specifically designed to support the networked sensor regime. By leveraging their intimate knowledge of both the hardware and TinyOS layers, Moteiv can promise the highest levels of support to their customers.

Features

250kbps 2.4GHz IEEE 802.15.4 Chipcon Radio 8MHz TI MSP430 microcontroller Integrated onboard antenna with 125m range Integrated Humidity and Temperature Sensor Ultra low current consumption ADC and UART operate with MCU off (<3uA current) Fast wakeup from sleep (<6us) Hardware link-layer encryption and authentication 2 x AA and 2/3A battery connections Programming and data collection via USB



Specifications

CPU	
Bus Speed	8 MHz
RAM	2 Kb
Program Space	60 Kb
External Flash	512 Kb
Serial Communications	DIO,SPI,I2C,UART
Current (active w/ Radio	on) 19 mA
Current (sleep)	2.4 uA
Voltage	1.8-3.6 V
Radio	
Frequency	2400-2483 MHz
Data rate	250 kbps
Output Power	-25 to 0 dBm
Antenna Type	Inverted-F or SMA Coax
Humidity Sensor	
Trainialty Scrisor	
Humidity Accuracy	3.5% RH
	3.5% RH 0.5 °C
Humidity Accuracy Temperature Accuracy Sampling Rate	
Humidity Accuracy Temperature Accuracy	0.5 °C