



## PRODUCT REFERENCE GUIDE

END TO END SOLUTIONS FOR WIRELESS SENSOR NETWORKS



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 Product Upgrade

 New Product




### Imote2 Platform



IPR2400

ITS400

IIB2400

Features			
Processor	13 - 416MHz MARVELL PXA271		
RAM	32MB		
Flash Memory	32MB		
Radio Transceiver	TI CC2420		
Frequency Range	2400-2483.5 MHz		
Temperature / Humidity		●	
Light		●	
Accelerometer (3-axis)		●	
I/O			2 Serial Ports via USB
ADC (4 external Inputs)		●	
JTAG			●








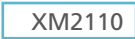
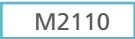





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## Mote Processor / Radio Platforms

	      	 XM2110	 M2110	MPR2400	MPR2600	MPR400
<b>Features</b>						
Frequency Range		2.4GHz ISM Band	2.4GHz ISM Band	2.4GHz ISM Band	2.4GHz ISM Band	868-870; 902-928 MHz
Processor		Atmel ATmega 1281	Atmel ATmega 1281	Atmel ATmega 128L	Atmel ATmega 128L	Atmel ATmega 128L
Radio Transceiver		RF230 Atmel	RF230 Atmel	TI CC2420	TI CC2420	TI CC1000
Serial Flash		Atmel AT45DB41B (512 kB)	Atmel AT45DB41B (512 kB)	Atmel AT45DB41B (512 kB)	Atmel AT45DB41B (512 kB)	Atmel AT45DB41B (512 kB)
RAM		8K bytes	8K bytes	4K bytes	4K bytes	4K bytes

## Sensor Data Acquisition Boards




	      	MDA300	MDA320	MDA100	MTS300	MTS310	MTS400	 MTS420
<b>Features</b>								
Accelerometer (2 Axis)						•	•	•
Actuator Relays	•							
Ambient Light							•	•
Barometric Pressure & Temp.							•	•
Buzzer				•	•			
External Analog Sensor Inputs	• (12-bit)	• (16-bit)	• (10-bit)					
GPS								•
GPIO	•	•	•					
Magnetic Field					•			
Microphone				•	•			
Photo-sensitive Light							•	•
Photoresistor			•	•	•			
Rel Humidity & Temperature	•						•	•
Thermistor			•	•	•			

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## Research Platforms

	TPR2420	MCS410 (Cricket)
		
<b>Features</b>		
Required Range	2400-2483.5 MHz	433-434.8 MHz
Processor	Texas Instruments MSP430	Atmel Atmega 128L
Radio Transceiver	TI CC2420	TI CC1000
Nonvolatile Memory	Atmel AT45DB41B (512 Kb)	Atmel AT45DB41B (512 Kb)
Light	•	
Ultrasonic / Range		•
Temperature	•	
Humidity	•	

## Gateways & Network Interfaces

	MIB510	MIB520	MIB600	SPB400
				
<b>Features</b>				
Description	Serial Port Programmer	USB Programmer	Ethernet Port Programmer	Stargate, XScale Platform
Mote/Board Connectors	IRIS, MICAz, MICA2 MICA-sensor Boards	IRIS, MICAz, MICA2	IRIS, MICAz, MICA2	IRIS, MICAz, MICA2 PCMCIA, USB, RS-232, Compact Flash, RS-232, Ethernet
Programming Port	Serial (RS-232)	USB	Ethernet	With host PC: RS-232 or Ethernet (using ssh)
Data Port	Serial (RS-232)	USB	Ethernet	Various