

Energy Harvesting Modules and Kits

MICROCHIP XLP ENERGY HARVESTING KIT

The XLP 16-bit Energy Harvesting Development Kit is a true development platform for realizing energy harvesting applications. It is based on Microchip's PIC® MCUs with nanoWatt XLP Technology and Cymbet's EVAL-08 Solar Energy Harvester.

Included in the Evaluation Kit:

- Cymbet Eval-08 Solar Energy Harvesting Board and Cable
- XLP 16-bit Development Board
- PIC24F16KA102 Microcontroller
- PICkit 3 Programmer/Debugger
- USB Cables
- XLP 16-bit Energy Harvesting Development Kit user guide

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Microchip Part No.	Fig.	Description	Microcontroller	Price Each
579-DV164133	DV164133	A	XLP 16-Bit Solar Energy Harvesting Kit	PIC24F16KA102	



ENERGY HARVESTING KITS AND MODULES

The EnerChip EH CBC5300 is a self-contained Energy Harvesting power module in a 24-pin DIP configuration. The CBC5300 module is designed to accept a wide range of energy transducer inputs, store the harvested energy, and deliver managed power to the target system. The purpose of this module is to enable system designers to quickly develop Energy Harvesting applications.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Cymbet Part No.	Fig.	Description	Microcontroller	Price Each
722-CBC-EVAL-05	CBC-EVAL-05	B	EnerChip CC Evaluation Kit	722-cbc3150-D9C, 722-cbc3112-D7C	
722-CBC-EVAL-09	CBC-EVAL-09	C	EnerChip EP Universal EH Kit	722-cbc3150-D9C	
722-CBC-EVAL-10	CBC-EVAL-10	D	EnerChip CCEH EH Kit	722-cbc3150-D9C	
722-CBC-EVAL-11	CBC-EVAL-11	E	EnerChip RFInductive Charging Demo Kit	722-cbc3150-D9C	



ELECTRONIC BATTERIES

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Cymbet Part No.	Output Voltage (V)	Capacity (µAh)	Price Each		
				1	10	25
722-CBC012-D5C	CBC012-D5C	3.8	12			
722-CBC050-M8C	CBC050-M8C	3.8	50			
722-CBC3112-D7C	CBC3112-D7C	3.6	12			
722-CBC3150-D9C	CBC3150-D9C	3.3	50			



EZ430-RF2500-SEH DEVELOPMENT TOOL

The ez430-rf2500 is a complete wireless development tool for the MSP430 and CC2500 that includes all the hardware and software required to develop an entire wireless project with the MSP430 in a convenient USB stick. The tool includes a USB-powered emulator to program and debug your application in-system and two 2.4-GHz wireless target boards featuring the highly integrated MSP430F2274 ultra-low-power MCU.

MOUSER STOCK NO.	TI Part No.	Description	Price Each
595-EZ430-RF2500	EZ430-RF2500	2.4GHZ MSP430 Wireless Development Tool	



POWERCAST WIRELESS SENSOR SYSTEM

POWERCAST™

WSN-1001 Benefits:

- No batteries to replace
- No wires to install
- Powered wirelessly

WSG-101 Benefits:

- Multiple BAS protocols
- Up to 100 devices
- Easy configuration

The WSN-KIT-01 Wireless Sensor Kit includes the WSN-1001 and WSG-101



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Power Cast Part No.	Fig.	Description	Price Each
582-WSN-1001	WSN-1001	F	Lifetime Power® Wireless Temperature and Humidity Sensor	
582-WSG-101-SERIAL	WSG-101-SERIAL	G	BAS Gateway with serial out via USB	
582-WSN-KIT-01	WSN-KIT-01	H	Wireless Sensor Kit with WSG-101-SERIAL	



POWERHARVESTER® RECEIVERS AND POWERCASTER™ TRANSMITTERS

POWERCAST™

Powerharvester Receivers can harvest directed or ambient RF energy and convert it to DC power for remotely recharging batteries or battery-free devices.



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Power Cast Part No.	Fig.	Description	Price Each		
				1	10	25
582-P1110	P1110	I	P1110 Powerharvester® Receiver			
582-P1110-EVB	P1110-EVB	J	P1110 Evaluation Board			
582-P2110	P2110	K	P2110 Powerharvester® Receiver			
582-P2110-EVB	P2110-EVB	L	P2110 Evaluation Board			
582-TX91501-3W-ID	TX91501-3W-ID	M	TX91501 Powercaster™ Transmitter - 3Watt			
582-TX91501-1W-ID	TX91501-1W-ID	M	TX91501 Powercaster™ Transmitter - 1Watt			



LIFETIME POWER® ENERGY HARVESTING DEVELOPMENT KITS

POWERCAST™



MOUSER STOCK NO.	Power Cast Part No.	Fig.	Description	Price Each
582-P2110-EVAL-01	P2110-EVAL-01	N	Wireless Sensors - featuring PIC® MCU with nanoWatt XLP	
582-P2110-EVAL-02	P2110-EVAL-02	-	Wireless Charging - featuring IPS THINERGY® Micro-Energy Cell	

micropelt TE POWER-MOTE THERMAL ENERGY HARVESTER

Features:

- Eliminate battery replacement
- Operates from waste heat or cold
- Starts operating from a low delta-T
- Output Supply: 2.4V
- Software for thermal/power analysis and temperature monitoring
- Operating Temp (Max): Hot Side: 105, Ambient Air: 85



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Micropelt Part No.	Fig.	Description	Microcontroller	Price Each
740-TE-POWER-MOTE	TE-POWER-MOTE	O	Sealed autonomous wireless sensor for outdoor and indoor condition monitoring	TI MSP 430-F2274	
740-TE-POWER-NODE	TE-POWER-NODE	P	Modular evaluation unit for fully autonomous wireless sensing of net ΔT and output voltage	-	
740-TE-POWER-PLUS	TE-POWER-PLUS	Q	Modular evaluation unit for gross harvesting and thermal battery exploration	TI MSP 430	
740-TE-POWER-PROBE	TE-POWER-PROBE	R	Screw or plug-in thermoharvester for dry or direct liquid attachment	-	
740-TE-CORE7	TE-CORE7	S	Thermal energy harvesting module	-	
740-TGP-751	TGP-751	T	Thin film thermo generator	-	

