



Summary Description:

The PIC18F87J72 Energy Monitoring PICtail™ Plus Daughter Board is a single phase energy monitor daughter board featuring the PIC18F87J72 high performance 8-bit MCU with 16/24-bit delta-sigma A/D converters. This low cost design uses a shunt for the current sensor in place of expensive current transformers. The PIC18F87J72 calculates active/reactive energy, forward/reverse energy, active/reactive/apparent power and RMS current/voltage. The Energy Monitoring PICtail Plus Daughter Board interfaces to the Explorer 16 Development Board (DM240001) where additional evaluation can be performed. Through the Explorer 16 Development Board, wired and wireless network connections can be made through other PICtail Daughter boards such as the Ethernet PICtail (AC164123) and the WiFi PICtail (AC164136-4).

This Kit Contains:

One PIC18F87J72 Energy Monitoring PICtail™ Plus Daughter Board



Features:

- Single phase energy measurement
- Energy calculation firmware: Active/Reactive Energy, Forward/Reverse Energy, Active/Reactive/Apparent Power, RMS Current & Voltage
- Low cost shunt based design
- Better than IEC Class 0.5 performance
- Interface to Explorer 16 Development Board