PWM Input Card
CP-PWM-1112

concurrent REAL-TIME

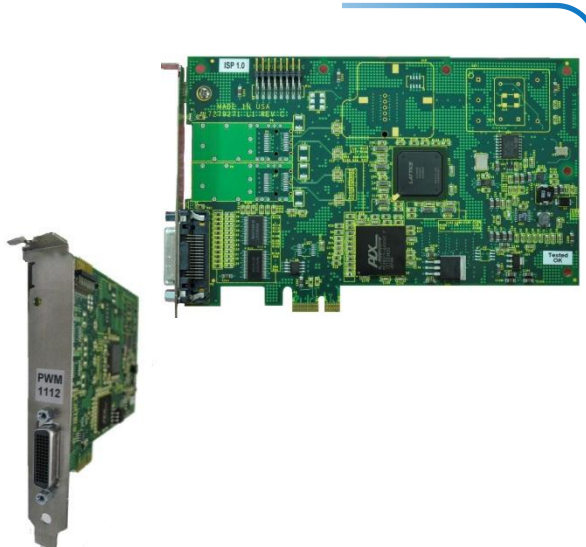## 12-Channel Pulse Width Modulation (PWM) Input PCIe Card

Introduction

The CP-PWM-1112 is an FPGA-based Pulse Width Modulation (PWM) Input card from Concurrent Real-Time. The CP-PWM-1112 input card is designed for capturing pulse width modulated signals with high accuracy. With a timing resolution of 15.15 nanoseconds and the ability to measure the frequency and duty cycle, the CP-PWM-1112 is ideal for use in hardware-in-the-loop (HIL) applications.

The CP-PWM-1112 comes in PCIe form factor. Multiple CP-PWM-1112 cards can be placed in one system. A Molex LFH™-60 connector is mounted on each card for connection to external devices.

Features

- FPGA based PWM board
- PCIe form factor
- 12-channel TTL inputs
- 66 MHz measurement base frequency
- Minimum pulse width of 15.15 ns
- Minimum period of 30.30 ns
- Pulse-width/period accuracy of 2 internal clock cycles (30.30 ns)
- Programmable pulse width averaging (max 127 pulse average)
- Measurement frequency range of 0.05 Hz to 660KHz
- Measurement duty cycle of 0-100%
- Programmable digital debouncing filters on every channel
- Supports multiple cards on a single system
- External Connectors: Molex LFH-60
- Power Consumption: ~5 watts

Accessories

- Cable and breakout board
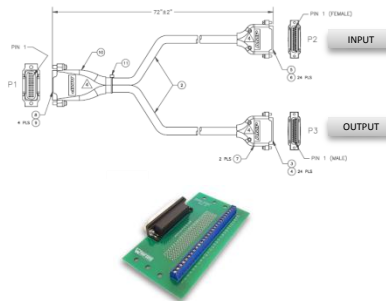
Ordering Information

❑ **CP-PWM-1112**
12-channel PWM input card

❑ **CX-LFH60**
PWM interface assembly w/6-foot cable

❑ **WC-PWM-1112**
Driver for RedHawk™ Linux®

❑ **ICS-SWB-243**
SIMulation Workbench™ I/O License

Pin Assignment

LFH60 pin assignments and location

Ch 0 — GND
Ch 1 — GND
Ch 2 — GND
Ch 3 — GND
Ch 4 — GND
Ch 5 — GND
Ch 6 — GND
Ch 7 — GND
Ch 8 — GND
Ch 9 — GND
Ch 10 — GND
Ch 11 — GND

10/29/2013