PWM Output Card

CP-PWM-1012

concurrent REAL-TIME

12-Channel Pulse Width Modulation (PWM) Output PCIe Card

Introduction

The CP-PWM-1012 is an FPGA-based Pulse Width Modulation (PWM) Output card from Concurrent Real-Time. The CP-PWM-1012 autonomously generates TTL pulse width modulated signals with high accuracy. With a timing resolution of 50 nanoseconds and the ability to program sine frequencies, PWM frequencies, dead-band, and duty cycle in real-time, the CP-PWM-1012 is ideal for use in hardware-in-the-loop (HIL) applications.

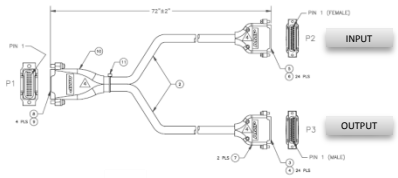
The CP-PWM-1012 comes in PCIe form factor. Multiple CP-PWM-1012 cards can be placed in one system. A Molex LFH™-60 connector is mounted on each card for connection to external devices.

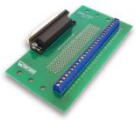
Features

- FPGA based PWM board
- PCIe form factor
- 3 modes of operation (12 outputs)
  - 2 channel, 3 phase complementary PWM outputs
  - 1 channel, 6 phase complementary PWM outputs
  - 12 channel PWM outputs
- 66 MHz board frequency
- 20 MHz PWM base frequency i.e. timing resolution of 50 nanoseconds
- 12-bit PWM signal resolution
- 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-1012**
12-channel PWM output card

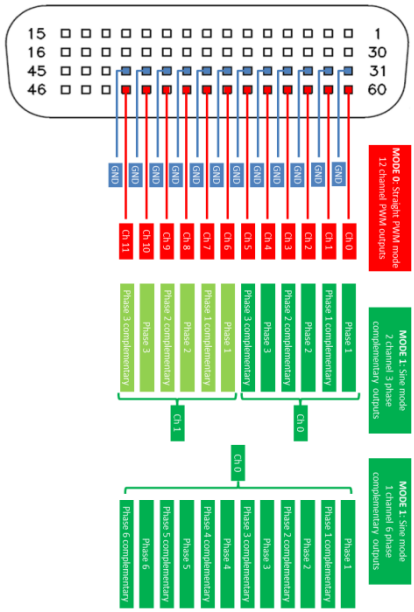
❑ **CX-LFH60**
PWM interface assembly w/6-foot cable

❑ **WC-PWM-1012**
Driver for RedHawk™ Linux®

❑ **ICS-SWB-238**
SIMulation Workbench™ I/O License

Pin Assignment

LFH60 pin assignments and location



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