32-bit GPT IP

General PWM Timer

Overview

This IP is a general PWM timer consisting of 8-channel 32-bit timer and one 3-phase PWM wave generator for brushless DC motor. This IP is encrypted RTL.

Key Features

- 32 bits timer counter x 8 channels
  - Counter operation (Saw-wave and Triangle-wave)
  - Waveform output by compare match (A/B per channel)
  - Captures counter value by input trigger
- 3-phase PWM wave generator for brushless DC motor
  - PWM output for chopper
  - Level output

Note: 3-phase means full wave 6-outputs (A-Up, A-Lo, B-Up, B-Lo, C-Up, C-Lo). U/V/W are another names of A/B/C.

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