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Diablo16 Embedded Graphics Processor

COM-15988 ROHS







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DESCRIPTION | FEATURES | DOCUMENTS

- 6 banks of 32750 bytes of Flash memory for User Application Code and Data
- 32Kb of SRAM purely for the User.
- 16 General Purpose I/O pins for user interfacing, which include 4 configurable Analog Inputs.
- The GPIO is variously configurable for alternative functions such as:
  - 3x I2C channels available
  - 1x dedicated for SD Card and 3x configurable SPI channels available
  - 1x dedicated and 3x configurable TTL Serial comm ports available
  - Up to 6 GPIO can be used as Pin Counters
  - Up to 6 GPIO for PWM (simple and Servo)
  - Up to 10 GPIO for Pulse Output
  - Up to 14 GPIO can be configured for Quadrature Encoder Inputs (2 channels)
- FAT16 file services.
- Dedicated SPI interface for SDHC/SD memory card for multimedia storage and data logging purposes (micro-SD with up to 2GB and SDHC memory cards starting from 4GB and above). Cards MUST support SPI.
- 4-Wire Resistive Touch panel interface.
- Audio support for wave files and complex sound generation with a dedicated 16-bit PWM audio output.
- 8 x 16 bit timers with 1 millisecond resolution.
- Low-cost OLED, LCD and TFT display graphics user interface solution.
- Ideal as a standalone embedded graphics processor or interface to any host controller as a graphics co-processor.
- Connect to almost any colour display that supports an 80-Series 16 bit wide CPU interface. All data and control signals are provided.

COMMENTS 0 | REVIEWS 0

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