Other Information

To obtain the most recent and complete documentation for this demonstration board, including:

- User's Guide
- Board Description
- Board Schematics
- Source Code
- Application Examples
- Links to Web Seminars

please refer to the Microchip web site: www.microchip.com

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DS22287B

SPI RTCC PICtail™ Daughter Board

Overview

The SPI RTCC PICtail™ Daughter Board is an evaluation board based around the MCP795W20 SPI Serial Real-Time Clock/Calendar. The board is designed to interface with development tools that support either the PICtail or PICtail Plus connector found on many Microchip development boards.

Key Features of the Board

- Follows the published recommended usage including decoupling capacitors, pull-up/down resistors, recommended crystal layout.
- PICtail or PICtail Plus connector – all signals are connected to the MSSP module on the target evaluation board.
- Test points allow connection to the MCP795W20 advanced peripherals.
- Jumpers to enable pull-up resistors on event detect inputs.
- On-board battery connection to operate when VCC is not present.
- On-board TC72 SPI temperature sensor.

Getting Started

The RTCC Daughter Board allows you to get started right out of the box. By using the daughter board and one of the MCU development boards that support the PICtail series of connector, code can be developed quickly on known good hardware. All of the application notes written for the MCP795XXX family are designed around the SPI RTCC PICtail Daughter Board.

External Connections

External connections are provided on the board for the following:

VCC – The VCC voltage should be limited to 3.6V.

$\overline{\text{IRQ}}$ – In addition to the IRQ being connected to an interrupt pin on the target board, an external test point is available that connects to the interrupt line on the RTCC.

$\overline{\text{WD}}$ – The Watchdog Output ($\overline{\text{WDO}}$) available on the RTCC is available as a test point on the PICtail daughter board.

CLKOUT – The clock out is available as a test point on the RTCC Board.

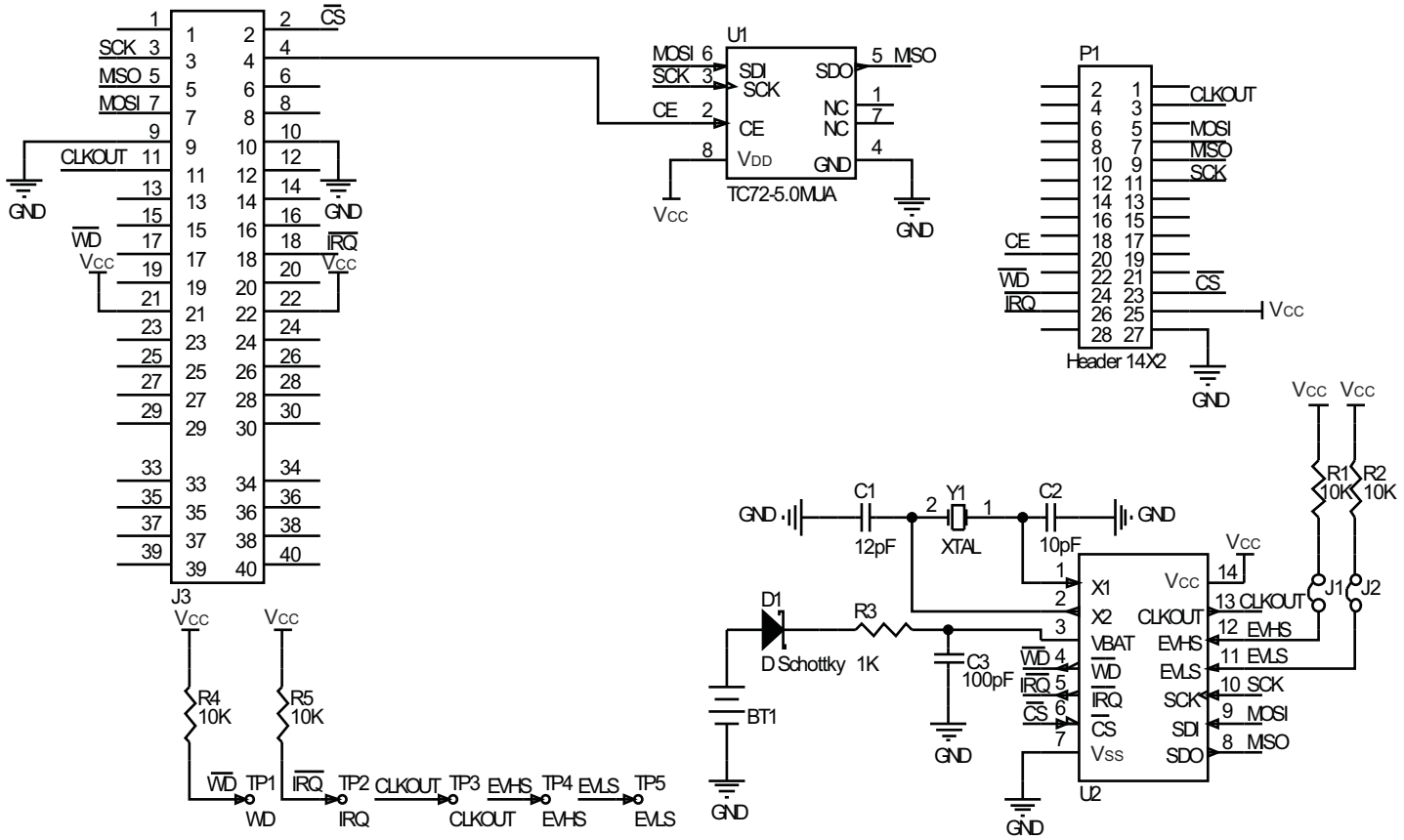
EVLS – The Low-Speed Event Detect is available as a test point on the RTCC PICtail daughter board. As this pin is edge triggered, an optional pull-up is available by shorting the jumper above the EVLS test point.

EVHS – The High-Speed Event Detect is available as a test point on RTCC PICtail daughter board. As this pin is edge triggered, an optional pull-up is available by shorting the jumper above the EVHS test point.

SPI RTCC PICtail™ Daughter Board

Board Schematic

The Schematic of the AC164147 Daughter Board is shown below:



Other Information

For additional information on the RTCC devices please visit www.microchip.com/rtcc.