

Atmel Avr Xmega C Manual

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MISO Atmel AVR QTouch Button The XMEGA-C3 Xplained kit has one Atmel QTouch button and the connection to the Atmel AVR XMEGA is shown in Table 4-2. The QTouch sensor, a copper fill, is located on the second layer of the board (same as GND layer). The sensor is shielded by the third layer (VCC layer) and therefore the sensor is not affected by any touches from the back side of the board.

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Atmel AVR XMEGA AU Clock Distribution Figure 7-1 on page 84 presents the principal clock distribution system used in XMEGA devices. 7.3.1 System Clock - Clk The system clock is the output from the main system clock selection. This is fed into the prescal- ers that are used to generate all internal clocks except the asynchronous and USB clocks.

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Mixed C and Assembly Atmel XMEGA COMMANDS AND CONSTRAINTS All commands that are given through the instruction set are available in the mixed C/Assembly setup. Below is a subset of the instruction set, but are many of the primary commands that are given in various avr-gcc compiling guides. Notice the constraint descriptions are slightly different.

Page 1/11 Revision 0 12-Feb-14 Mixed C and Assembly Atmel ...
† Atmel AVR XMEGA AU manual † XMEGA application notes This device data sheet only contains part specific information with a short description of each peripheral and module. The XMEGA AU manual describes the modules and peripherals in depth. The XMEGA application notes contain example code and show applied use of the mod- ules and peripherals.

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