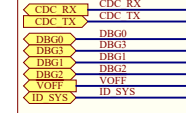


AVR32SD32

Debugger	Name	Pin
CDC TX	USART0 RX	PD5
CDC RX	USART0 TX	PD4
DBG0	UPDI	UPDI
DBG1	GPI01	PF5
DBG2	GPI00	PF2
DBG3	RESET	RESET
VTG	2.7V - 5.5V	

DEBUGGER CONNECTIONS



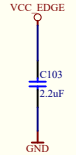
NOTE on UART/CDC:

RX/TX on the header denotes the input/output direction of the signal respective to it's source.
CDC TX is output from the DEBUGGER.
CDC RX is input to the DEBUGGER.
TX is output from the TARGET device.
RX is input to the TARGET device.

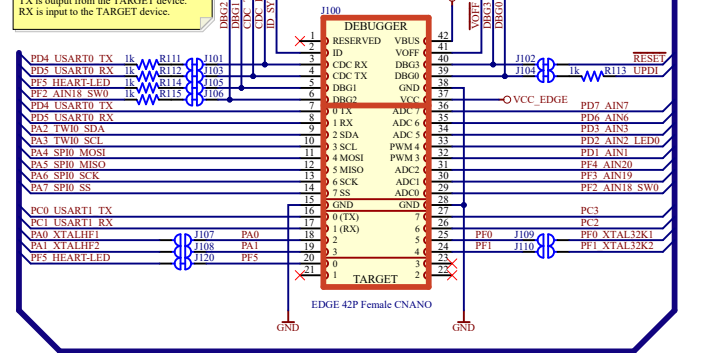
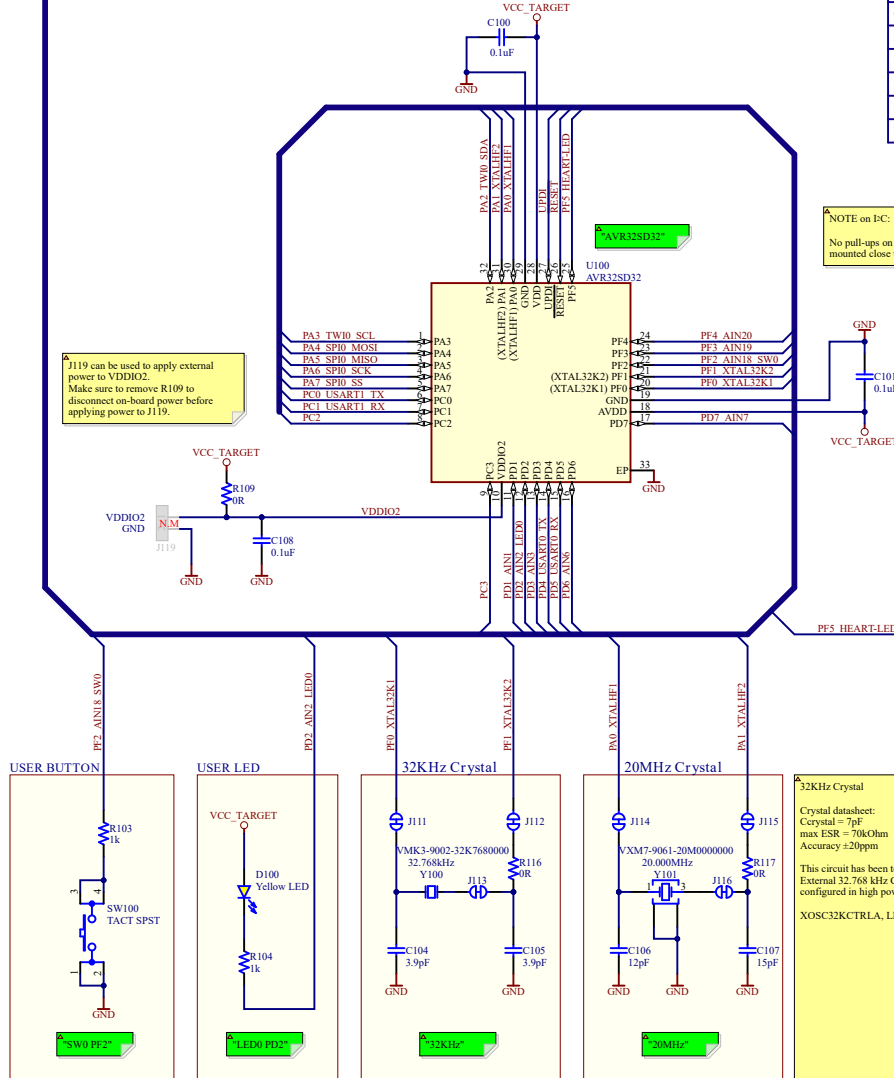
NOTE on IC:

No pull-ups on board. Pull-ups must be mounted close to client device(s).

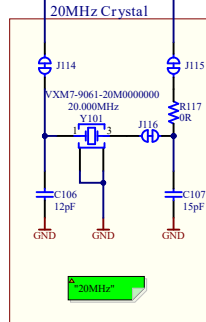
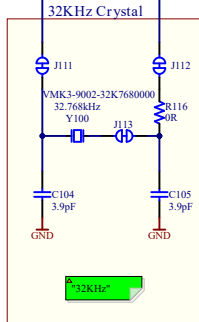
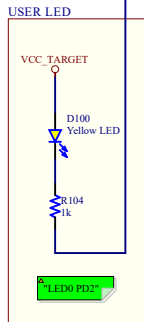
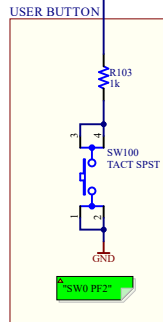
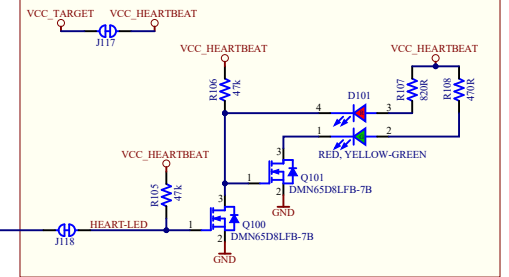
TARGET BULK



J119 can be used to apply external power to VDDIO2. Make sure to remove R109 to disconnect on-board power before applying power to J119.



HEARTBEAT LED



32KHz Crystal
Crystal datasheet:
Crystal = 7pF
max ESR = 70kOhm
Accuracy ±20ppm
This circuit has been tested with the External 32.768 kHz Crystal Oscillator configured in high power mode.
XOSC32CTRLA, LPMODE = 0

20MHz Crystal
Crystal datasheet:
Crystal = 12pF (typical value)
max ESR = 40Ohm
Accuracy ±20ppm
This circuit has been tested with the External High-Frequency Oscillator configured for FRQRANGE 32 MHz.
XOSCHCTRLA, FRQRANGE = 0x3