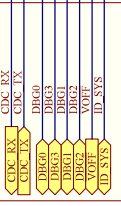


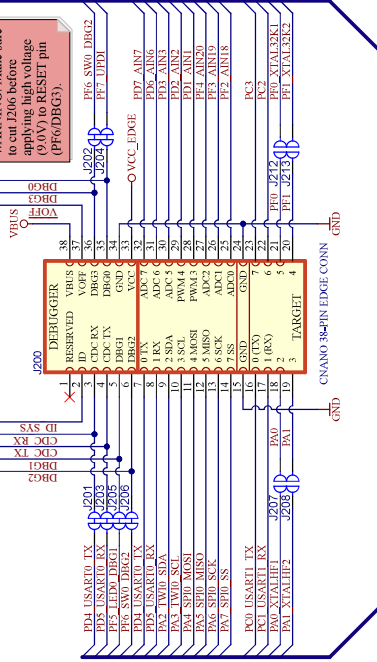
AVR64DD32

Debugger	Name	Pin
CDC TX	USART0_RX	PD5
CDC RX	USART0_TX	PD4
DBG0	UPDI	PF7
DBG1	GPOD1	PF5
DBG2	GPOC0	PF6
DBG3	RESET	PF6
VTG	L8V - 5.5V	

DEBUGGER CONNECTIONS



WARNING! Make sure to cut D206 before applying high voltage (9.0V) to RESET pin (PF6/DBG3).

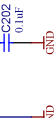


NOTE on I2C/TWI:
No pull-ups on board. Pull-ups should be mounted close to client devices(s).

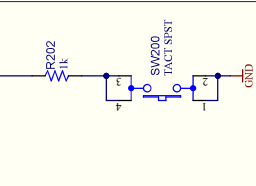
NOTE on UART CDC:
RX/TX on the header denotes the input/output direction of the signal respective to it's source.
CDC TX is output from the DEBUGGER.
CDC RX is input to the DEBUGGER.
TX is output from the TARGET device.
RX is input to the TARGET device.



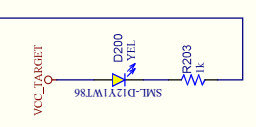
J217 can be used to apply external power to VDDIO2. Make sure to remove R201 to prevent power before applying power to J217.



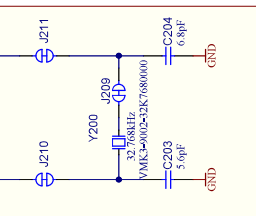
USER BUTTON



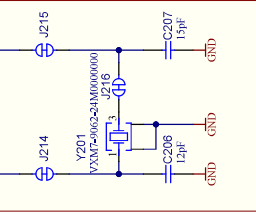
USER LED



32KHz Crystal

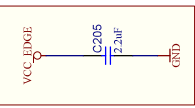


24MHz Crystal



Crystal datasheet:
 Crystal = 24MHz
 max ESR = 70kOhm
 Accuracy = ±20ppm
 AVR64DD32 datasheet:
 Cload (Cload2 = 50pF (typical value))
 C1 = 1 (1.50pF), (1.50pF) = 2.5pF
 Maximum Load = 12.5pF
 Minimum ESR = 30kOhm
 Estimated Cph = 1pF
 Estimated load:
 C = 2 (Cph + Cload) = 2.5pF + 1pF
 C = 7.0pF
 Scheduled in design after verification
 C = 5.6pF/6.8pF

TARGET BULK



MICROCHIP

Project Owner:
P. Breedveld

PCB Layout Contact:
P. Breedveld

Part Number:
EV72Y42A

Project Title:
AVR64DD32 Curiosity Nano

Variant: Default Assembly

Sheet Title:
Target MCU

Size: A3

Rev: 2

Date: 12-22-2021

PCB #: 0411312

Rev: 2

Sheet: 2 of 4

File: AVR64DD32_Curiosity_Nano_MCU_Schematic

Designed with
Altium
Altium.com