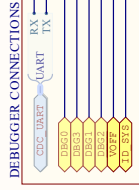
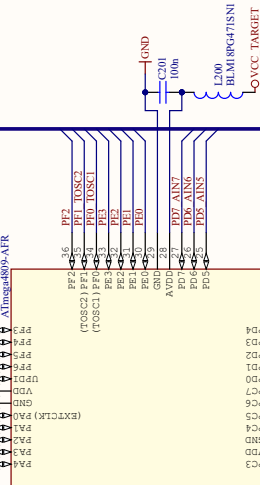
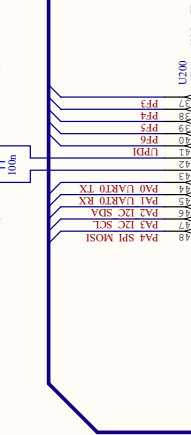
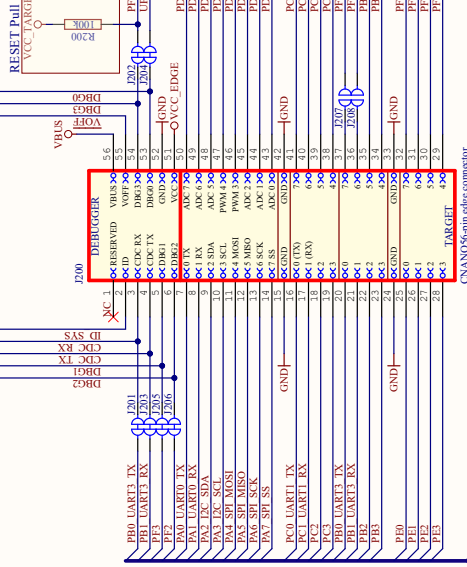


Atmega4809



Atmega4809		
Debugger	Name	Pin
CDC TX	UART RX	PBI
CDC RX	UART TX	PB0
DBG0	UPDI	UPDI
DBG1	GPDI	PF3
DBG2	GPDI0	PF2
VTG	L.R.V. -5.5V	PF6



NOTE on UART/CDC:
 RXTX on the header denotes the input/output direction of the signal respective to its 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 I2C:
 No pull-ups on board. Pull-ups should be mounted close to slave device(s).

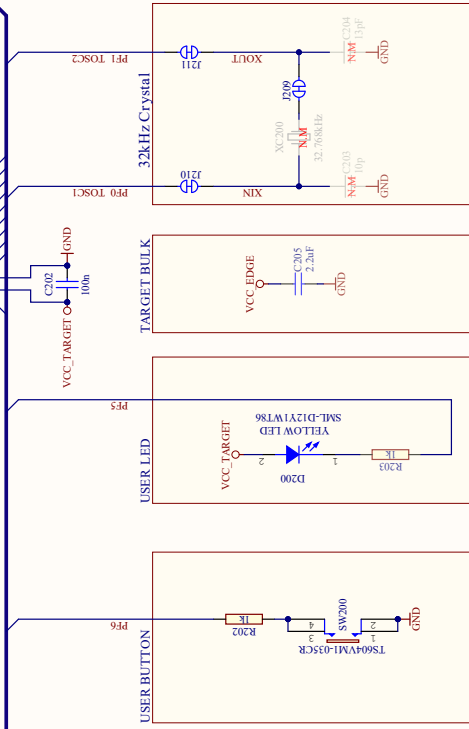
NOTE on Crystal calculations:
 The calculations are based on a crystal used on an earlier revision of this board.

Crystal datasheet:
 Crystal = 7pF
 Load Capacitance = 10pF
 Accuracy = ±20ppm

Atmega4809-datasheet:
 C₁ = 10pF
 C₂ = 5pF
 Maximum Load = 12.5pF
 Maximum ESR = 800.0Ohm
 Estimated Cpch = 0.5pF

Estimated load:
 C = 2 * (C₁ * C₂ / (C₁ + C₂)) + Cpch
 C = 2 * (7pF * 5pF / (7pF + 5pF)) + 0.5pF
 C = 7.5pF

Selected in design after verification
 C = 10/13pF



Drawn By: **Microship Norway**
 Engineer: **HN/TF**

Project Title: **Atmega4809 Curiosity Nano**
 Sheet Title: **Target MCU**

Designed with **Altium**
 Altium.com

Size: **A3** | PCB Assembly Number: **A09-3094** | PCB Revision: **8**
 PCB Number: **A09-2838** | PCB Revision: **7**

File: **Curiosity Nano - Target MCU.schdoc**

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