CPU Distribution Board Datasheet

Description
The CPU distribution board receives power from the merge board at Vbatt. It passes this straight to the CPU. The power is also converted to 12 V and distributed to 6 fans. The current and voltage of each are measured and sent to the serial board after going through a microcontroller. Temperature sensing is also performed by the board. The 5V to power the microcontroller is provided through a regulator.

Specifications
- Vbatt from the merge board by Wet Noodle Connection
- 12V supply provided to 6 fans by a DCDC
- 5V supply for microcontroller by a regulator
- Dimensions: 3.75” x 5.25”
- 2x2 Microfit to CPU
- 3x2 header ISP
- 1X3 Microfit to Serial
- Heartbeat LED
- Power LED
- 6 2x1 Microfit to fans
- Microcontroller and Transceiver

Unique Parts
- Microcontroller- ATmega644p
- Serial- Max3250
- Current Sense - ZXCT1022
- Temperature Sense – LM34
- 5 V Regulator – LM2937
- 12 V DCDC – LM22680

Connector Pinouts

![Diagram of CPU Distribution Board connections]