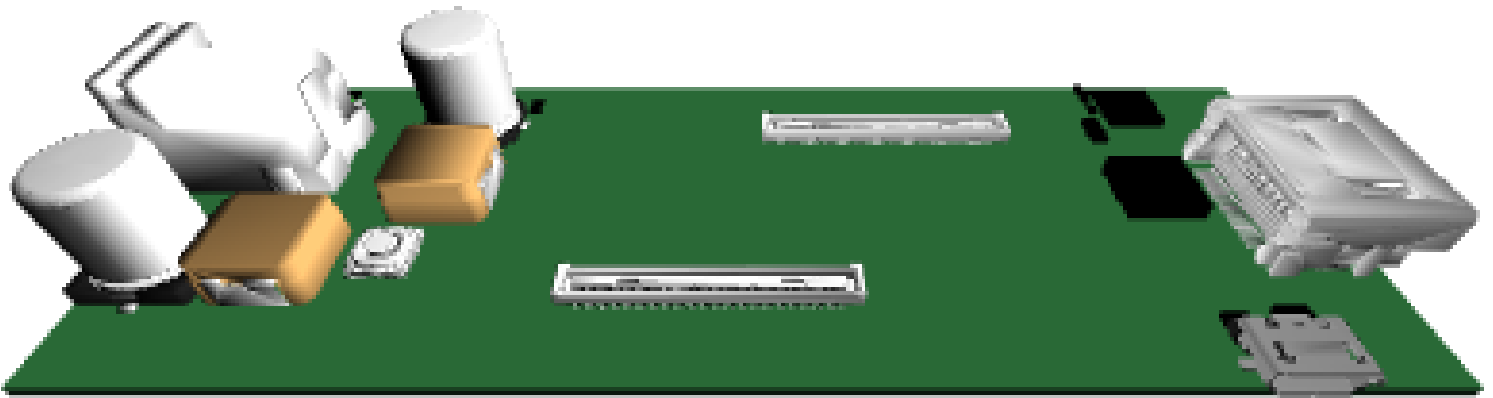


Intel Joule Module HTPC



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Board Description

Intel Joule Module Home Theatre PC

Board Dimensions

9.8cm x 3.5cm



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1 Modules on Board



1.1 COM Connectors

1.1.1 Intel Joule Module Connector (v7) (1)

- VCC_5.0 from 5V/5A Regulator (3)
- VCC_36V from Barrel Connector (20V 3A) (4)

The Tesla connectors provide the following outputs:

- 3V3 to Green LED (7)
- SYS_EN to Green LED (7)
- VLOGIC to:
 - Native HDMI receptacle (2)
 - USB-UART (6)
- HDMI to Native HDMI receptacle (2)
- UART2_4W to USB-UART (6)

1.2 Monitors

1.2.1 Native HDMI receptacle (v8) (2)

The HDMI connector provides HDMI video and audio signals to an external display and speakers.

This displays high definition video for HDMI on Intel Joule Module Connector (1).



1.3 Power

1.3.1 5V/5A Regulator (v3) (3)

Takes 6 - 36V input from Barrel Connector (20V 3A) (4) and provides up to 5A at 5V to:

- Intel Joule Module Connector (1)
- Native HDMI receptacle (2)

1.4 Power Connectors

1.4.1 Barrel Connector (20V 3A) (v2) (4)

This power jack is compatible with Gumstix 20V/3A DC power adapter using a barrel connector.

This power jack provides 20V to the following modules:

- Intel Joule Module Connector (1)
- 5V/5A Regulator (3)

1.5 USB

1.5.1 Micro-B Jack (v8) (5)

A USB micro-B port allows your design to connect as a USB device to a USB host.

This module is connected to USB_DEVICE on USB-UART (6).

1.6 Connectivity

1.6.1 USB-UART (v14) (6)

Also known as an FTDI, this USB to UART converter allows a USB connection to the board to behave as a virtual RS232 serial connection. It offers direct and complete access to the system from a development machine.

This USB to UART converter connects a host machine from Micro-B Jack (5) to UART2_4W on Intel Joule Module Connector (1).

1.7 IO

1.7.1 Green LED (v13) (7)

This 1608 standard size green LED provides an indicator for the signal SYS_EN on Intel Joule Module Connector (1).



1.8 Mechanical

1.8.1 Mounting Hole (2.2mm)

A #0 mounting hole for securing the board with mounting pins.

1.8.2 Mounting Hole (2.2mm)

A #0 mounting hole for securing the board with mounting pins.

1.8.3 Mounting Hole (2.2mm)

A #0 mounting hole for securing the board with mounting pins.

1.8.4 Mounting Hole (2.2mm)

A #0 mounting hole for securing the board with mounting pins.



2 Module Connections Graph

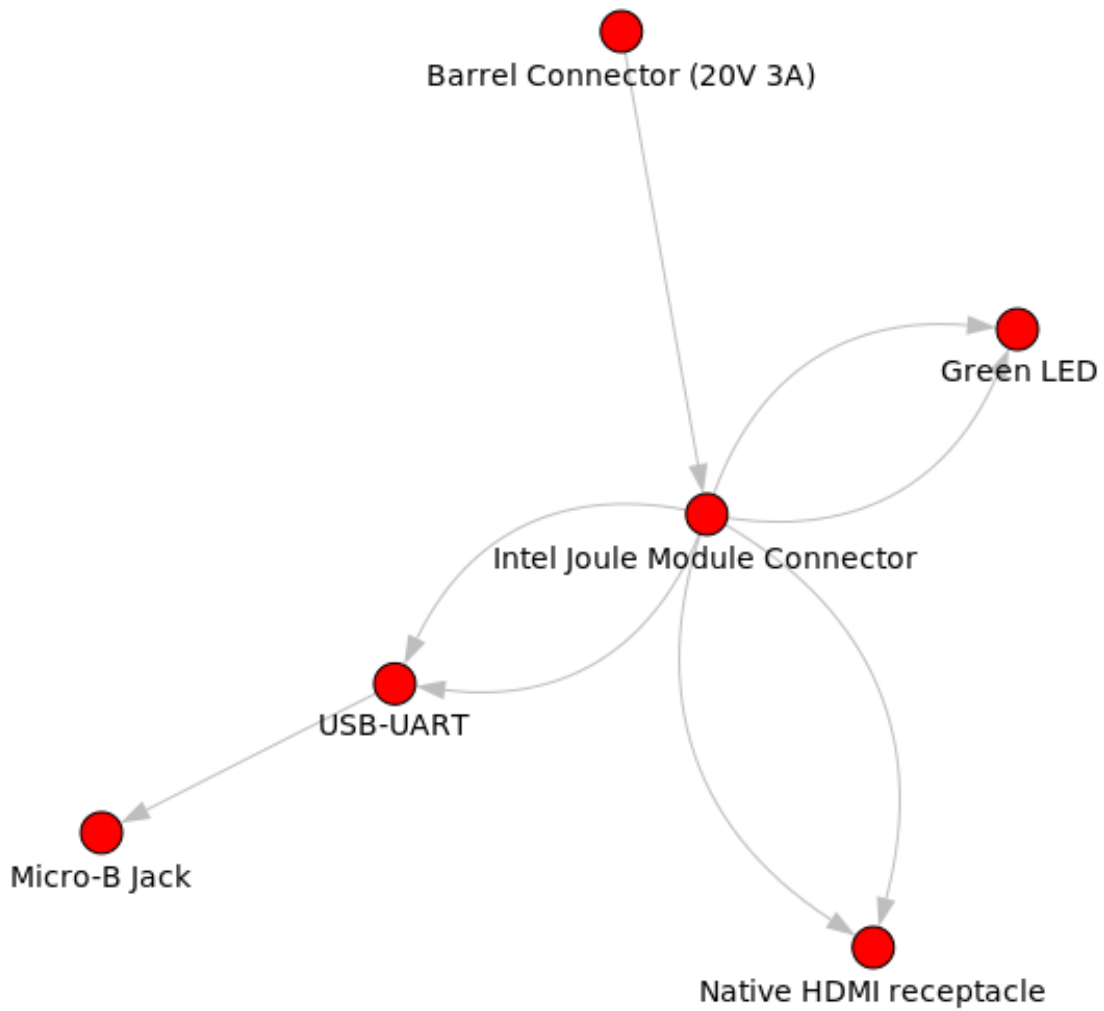


Figure 1: excludes power modules



3 Module Power Graph

