

Features

- 204-pin SODIMM compatible with DINI Group products:
 - [DN2076k10](#)
 - [DNV6_F2PCIe](#)
 - [DNV6F6PCIe](#)
 - [DN-DualV6-PCIe-4](#)
- ULPI Hi-Speed Universal Serial Bus On-The-Go transceiver
 - **SMSC USB3317**
 - Universal Serial Bus Specification Rev. 2.0
 - Mini-B Connector
 - On-The-Go Supplement to the USB 2.0 Specification Rev. 1.2
 - UTMI+ Low Pin Interface (ULPI) Specification Rev. 1.1
 - High-speed support (480 Mbits/s),
 - Full-speed (12 Mbits/s)
 - Low-speed (1.5 Mbit/s)
- Serial Flash memory (M25P128)
 - 128Mbit (16Mbit x 8)
- NAND Flash memory socket (48-pin TSOP)
 - 8-bit data
 - +1.8V power
- 2, 40-pin, 0.1" IDC headers for off-board cabling
 - 32 signal per connector, with 13 pairs configured for LVDS
- 10 LEDs
 - Enough illumination to peel paint or provide visual feedback

Description

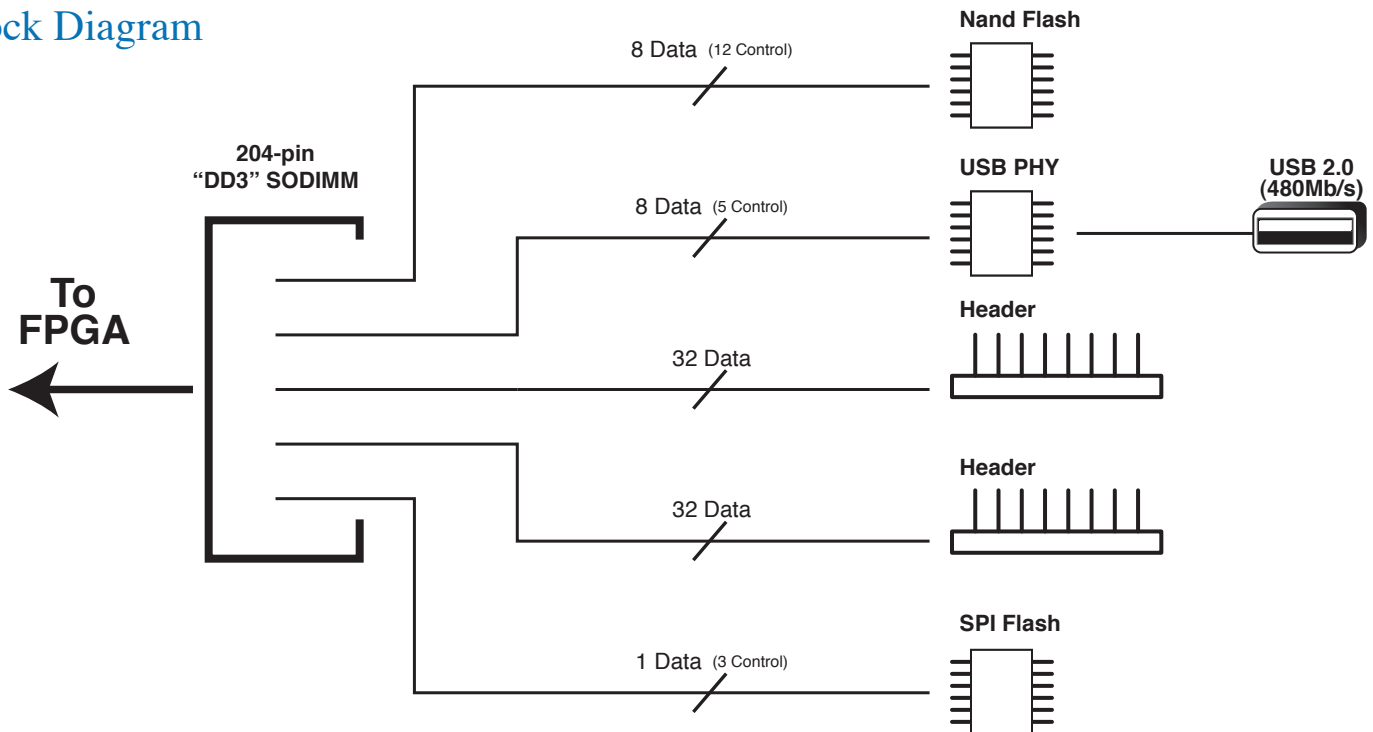
The **DNSODM204_USB** is an SODIMM module that can be installed in a 204-pin DDR3 SODIMM socket on FPGA-based ASIC emulation products from DINI Group. This module adds USB2.0 physical layer functionality, allowing easy and cost effective prototyping of USB IP. This module also contains an 48-pin TSOP socket for a NAND Flash memory, a 128Mbit serial flash memory, and two 40-pin IDC headers for off-board I/O. 10 green LEDs can create enough illumination to peel paint from your lab walls or provide valuable visual feedback to your debug process.

Hi-Speed USB 2.0 Transceiver – SMSC USB3317

A USB3317 from SMSC provides the USB2.0 transceiver functionality. The SMSC3317 contains On-The-Go (OTG) functionality that is fully compliant with Universal Serial Bus Specification Rev. 2.0, On-The-Go Supplement to the USB 2.0 Specification Rev. 1.2 and UTMI+ Low Pin Interface (ULPI) Specification Rev. 1.1. The SMSC3317 can transmit and receive USB data at high-speed (480 Mbit/s), full-speed (12 Mbit/s) and low-speed (1.5 Mbit/s), and provides a physical layer front-end attachment to USB host, peripheral, and OTG devices. A MINI-B connector is provided, so no odd or custom cables are required.

This isn't the most mechanically stable of solutions, so be careful of the stress the USB cable puts on the board when mounted in an SODIMM socket.

Block Diagram



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