Intel® Embedded Development Board Mini-ITX Carrier

Carrier Board Schematics supporting Intel® Embedded Development Board Compute Modules

January 2011
Revision 001
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## Revision History

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<th>Revision Number</th>
<th>Description</th>
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<tr>
<td>324768</td>
<td>001</td>
<td>Initial release.</td>
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INTEL CORPORATION
Embedded & Communications Group

Intel® Embedded Development Board
-Mini-ITX Carrier Schematics -
Revision: B

Note: Development Boards will be marked with Viking Modular Solutions*
Reference Design Note:
Selected RJ-45 jacks include integrated Magnetics and must be supported by the MAC/PHY on the compute module per supplier design guidelines.
HD AUDIO CONNECTORS

Note: Mapping of HD Audio Function to Colors does not follow typical PC mapping - See color notes below

- Mic In
- Line Out / Headphone Out
- Line In / Side Source
- Line Out / Amp Out
- Center Ch / Sub-Woofer
- S/PDIF
- SPDIF Out
- Line Out / HP OutCenter Ch / Sub-Woofer

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Reference Design Note:

Bit ordering convention on DISP and DISP does not match Intel Chipset Ordering for XDI — design should be reviewed for any selected Display interface.

Pericom Design Guidelines call for signals "SCL_SRC" and "SDA_SRC" to be pulled up to 3.3V - Any reuse of this circuit should be validated against supplier design guidelines.
Note: No standard configuration has been defined for LVDS Panel Interfaces. Care should be taken to validate correct signal compatibility with any LVDS cable and panel before connection to this platform.
VCC 5.0 VDC 10 AMPS

VCC 3.3 VDC 10 AMPS
"VCC_5V0A" has been implemented using a 3.3 Volt Regulator due to component availability issues. This is functionally correct for this platform, but U2002 should be populated with the pin-compatible 5.0 Volt regulator for subsequent revisions. See Changes needed below.

Changes:
- R1529: Change to DNP
- R1528: Change to 0 OHM
- R1916: Change to DNP
- U2002: Change to NCP3335AMADJR2G
- R2015: Change to 9.09K, 1%
- R2013: Change to 27.4K, 1%

3.3VDC ALWAYS ON 500mA MAX

5.0 VDC ALWAYS ON 500mA MAX

1.5VDC 500mA MAX

1.8VDC 500mA MAX