COM Express® Type 6 Reference Carrier Board in ATX Form Factor

Features
- One PCI Express x4 slot, three PCI Express x1 slots
- PCI Express x16 / SDVO slot
- Supports three Digital Display Interfaces (DDI) with HDMI/DVI/DisplayPort output
- LPC based Super I/O
- Dual BIOS (SPI and LPC)
- Conforms to COM Express® Carrier Design Guide

Specifications

Form Factor
- Core Module Interface: PICMG® COM Express® Revision 2.0
- Supports Type 6 modules in Basic or Compact form factor
- Dimensions: 305 mm x 244 mm (ATX)
- Expansion Busses: One PCI Express x4 slot, three PCI Express x1 slots, One ExpressCard slot, One PCI Express x16 / SDVO slot

BIOS / Debug
- POST LEDs: Onboard diagnostics for BIOS POST code data and address on LPC bus
- Secondary BIOS: Onboard socket for secondary SPI flash

Active Components
- Audio: Realtek ALC886 High Definition Audio Codec
- Super I/O: Winbond W83627DHG on LPC bus
- Digital I/O: I²C to GPIO bridge PCA9535

Connectors
- COM Express®: Two x 220-pin (Type 6)
- VGA: DB15 on Rear I/O panel for VGA display
- LVDS: Onboard 34-pin header
- Digital Display Interface: Supports three DDI ports to HDMI/DVI/DisplayPort output by adapter card (PCIe x16 slot with proprietary pinout)
- Flat Panel Control: Onboard 8-pin header
- Audio: Mic/Line-In/Line-Out on I/O panel
- SATA: Two SATA ports (SATA0/1), two eSATA ports (SATA2/3)
- ExpressCard: One socket onboard
- LAN: 1G/100/1000BASE-T compatible RJ45 on I/O panel
- USB 2.0: Four USB 2.0 on I/O panel, Four USB 2.0/3.0 on I/O panel
- Serial Port: One DB-9 on I/O panel
- Smart Battery: One 10-pin header for Smart Battery management communications (connects to ADLINK BattMan board)
- LPC Debug: Onboard 20-pin header
- KB/Mouse: Two 6-pin mini DIN (on rear I/O panel)
- Feature Connectors: SMBus, PC, module control signals
- Miscellaneous: Reset, Power LED, HDD LED, Buzzer

Functional Diagram

Ordering Information

Modules

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<tr>
<th>Model Number</th>
<th>Description/Configuration</th>
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<tr>
<td>Express-BASE6</td>
<td>COM Express® Type 6 Reference Carrier Board in ATX form factor</td>
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COM Express Carrier Design Guide

Provides detailed information on designing your own custom carrier board for COM Express modules.

Note: All specifications are subject to change without further notice.