Express-BASE

COM Express® Type 2 Reference Carrier Board in **ATX Form Factor**



Features

- Five PCI Express x1 slots
- PCI Express x16 Graphics slot / SDVO slot
- Two legacy 32-bit PCI slots
- Dual LPC BIOS, single step execution
- LPC Super I/O (enable/disable)
- CF card or Express-Card
- Integrated POST code display
- ATX / AT or Battery Powered

Specifications

Form Factor

Expansion Busses

Core Module Interface

PICMG® COM Express® Revision 2.0

Dimensions 305 mm x 244 mm (AT/ATX)

Two 32-bit PCI v2.3 slots Five PCI Express x1 slots

One PCI Express x16 / SDVO slot

LPC bus header

BIOS / Debug

POST LEDs

Onboard diagnostics for BIOS POST code data and address

Supports Type 2 modules in Basic or Compact form factor

on LPC bus

Allows single step BIOS execution

Secondary BIOS

Onboard sockets for secondary LPC & SPI flash

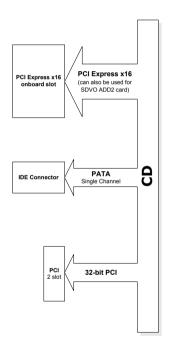
Active Components

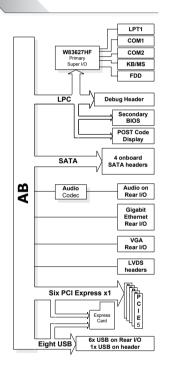
Audio ALC880 High Definition Audio Codec Winbond WF83627HG on LPC Super I/O

Connectors >

Commedia	
COM Express®	Two x 220-pin (Type 2)
VGA	DB15 on Rear I/O panel for VGA displays
LVDS	Two onboard headers supporting dual channel LVDS
Audio	Mic/Line-in/Speakers on rear I/O panel, Mic/Line-in on header, S/PDIF on header
PATA IDE	One 40-pin header
SATA IDE	Four SATA connectors
ExpressCard	One socket onboard
LAN	10/100/1000BASE-T compatible RJ45 on rear I/O panel
USB 2.0	Four + two on rear I/O panel, two on header and one through Mini Express Card
Serial Port	One DB-9 on rear I/O panel, one header onboard
Parallel Port	One DB-25 on rear I/O panel
FDD	34-pin header
Smart Battery	One header for Smart Battery management communications (connects to ADLINK BattMan board)
KB/Mouse	Two 6-pin mini DIN (on rear I/O panel)
Digital I/O	8-pin header
Feature Connectors	SMBus, I ² C, module control signals, flat panel control signals
Miscellaneous	Reset, Power LED, HDD LED, Buzzer
Power	Standard ATX connector
Switches	Onboard RESET button and ATX mini switch

Functional Diagram





Ordering Information

Carrier

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Model Number	Description/Configuration	
Express-BASE	COM Express® Reference Carrier Board in ATX form factor	

COM Express Carrier Design Guide COM + Express

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

Download from the Express-BASE product webpage at www.adlinktech.com