

Express-BASE7

COM Express® Type 7 Reference Carrier Board in ATX Form Factor

Features

- Supports up to four 10GBASE-KR and associated sideband signals
- Supports NC-SI interface
- One PCI Express x16 slot, Two PCI Express x8 slots
- Supports 10GbE adapter card via PCIe x16 slot
- Dual BIOS (SPI bus)
- Conforms to COM Express® Carrier Design Guide

New



Specifications

• Core Module Interface

PICMG COM Express Revision 3.0

Supports Type7 module in Basic or Compact form factor

• Dimension

305 mm x 244 mm (ATX)

• Expansion Busses

1 PCI Express x16 slot

2 PCI Express x8 slots

• POST LEDs

Onboard diagnostics for BIOS POST code data and address on LPC bus

• Secondary BIOS

Onboard socket for secondary SPI flash

• Super I/O

Winbond WF83627DHG on LPC bus

• Digital I/O

I2C to GPIO bridge PCA9535

• Connectors

Two 220-pin board-to-board connectors (Type 7)

• 10GbE LAN

Up to four 10GBASE-KR and related sideband signals

1 PCI Express x16 slot routes signals from COM Express module to 10GbE card adapter (proprietary pinout)

• GbE LAN

10/100/1000BASE-T

compatible RJ-45 on I/O panel

GbE_SDP support

• NC-SI and IPMI BMC

NC-SI interface connect COM Express module and IPMI BMC

IPMI BMC (Lite version) on carrier board

Note: support by project basis

• SATA

2x SATA ports

• USB

4x USB 3.0/2.0 ports

• Serial Port

2x DB-9 on I/O panel (from Winbond Super I/O)

2x onboard 10-pin header (from COM Express module)

• KB/Mouse

2x 6-pin mini-DIN

• Feature Connectors

SMBus, I2C, module control signals

• Miscellaneous

Reset, Power LED, HDD LED, Buzzer

Functional Diagram

