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

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-4S 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