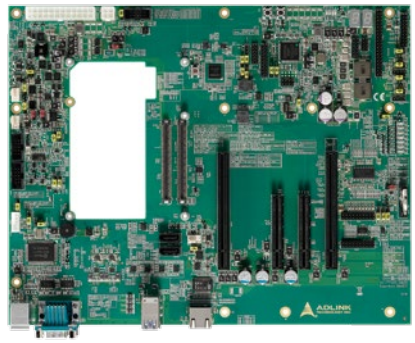
Express-BASE7

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

Features

New

- 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

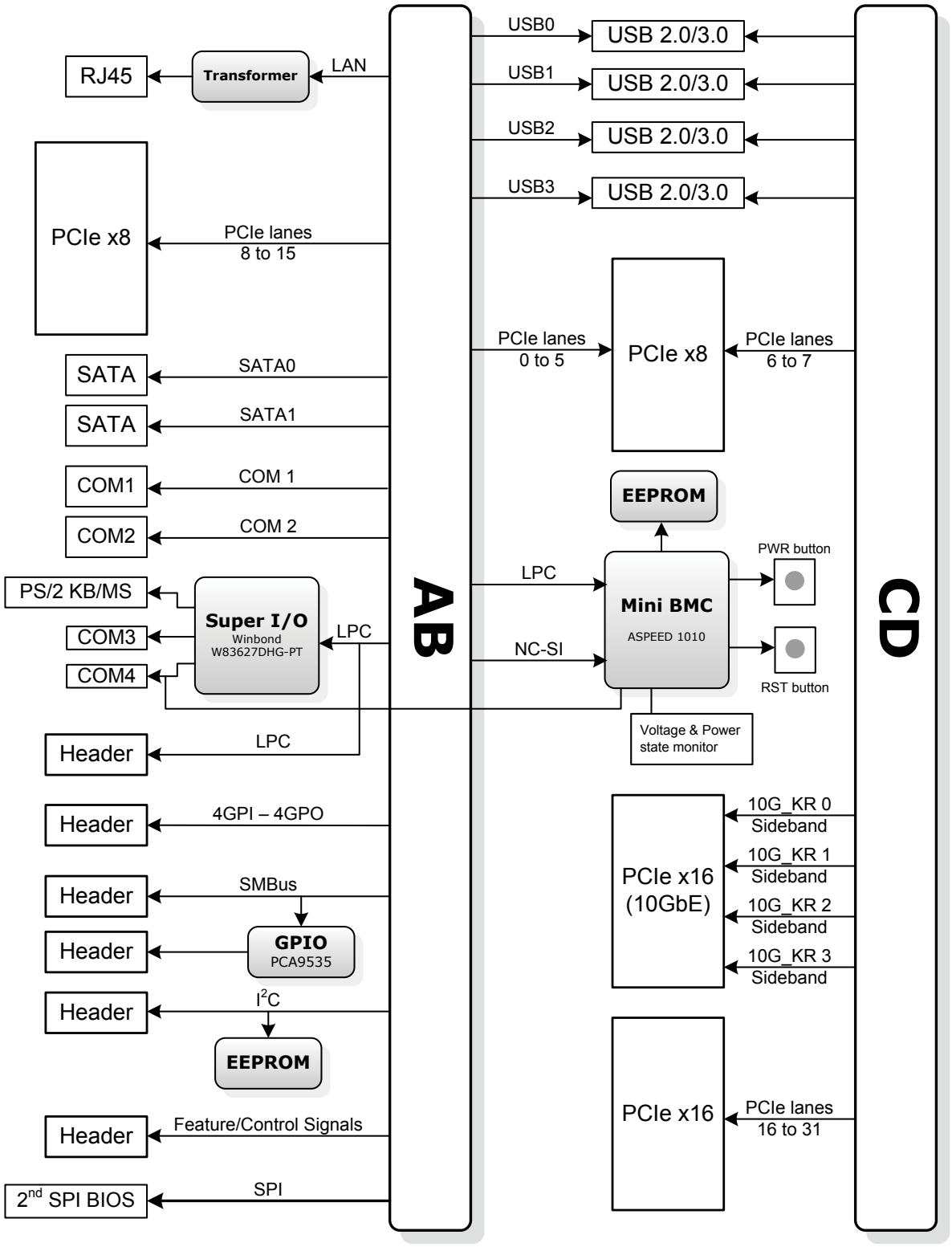


Specifications

- **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-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

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Functional Diagram



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