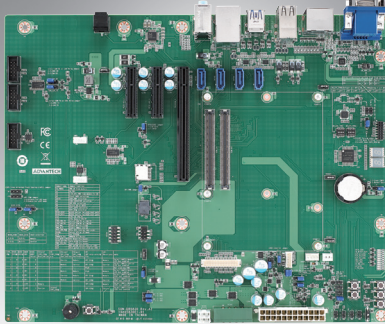


SOM-DB5830

Development Board for COM Express® Type 6/10 Pin-Out Modules

NEW



Features

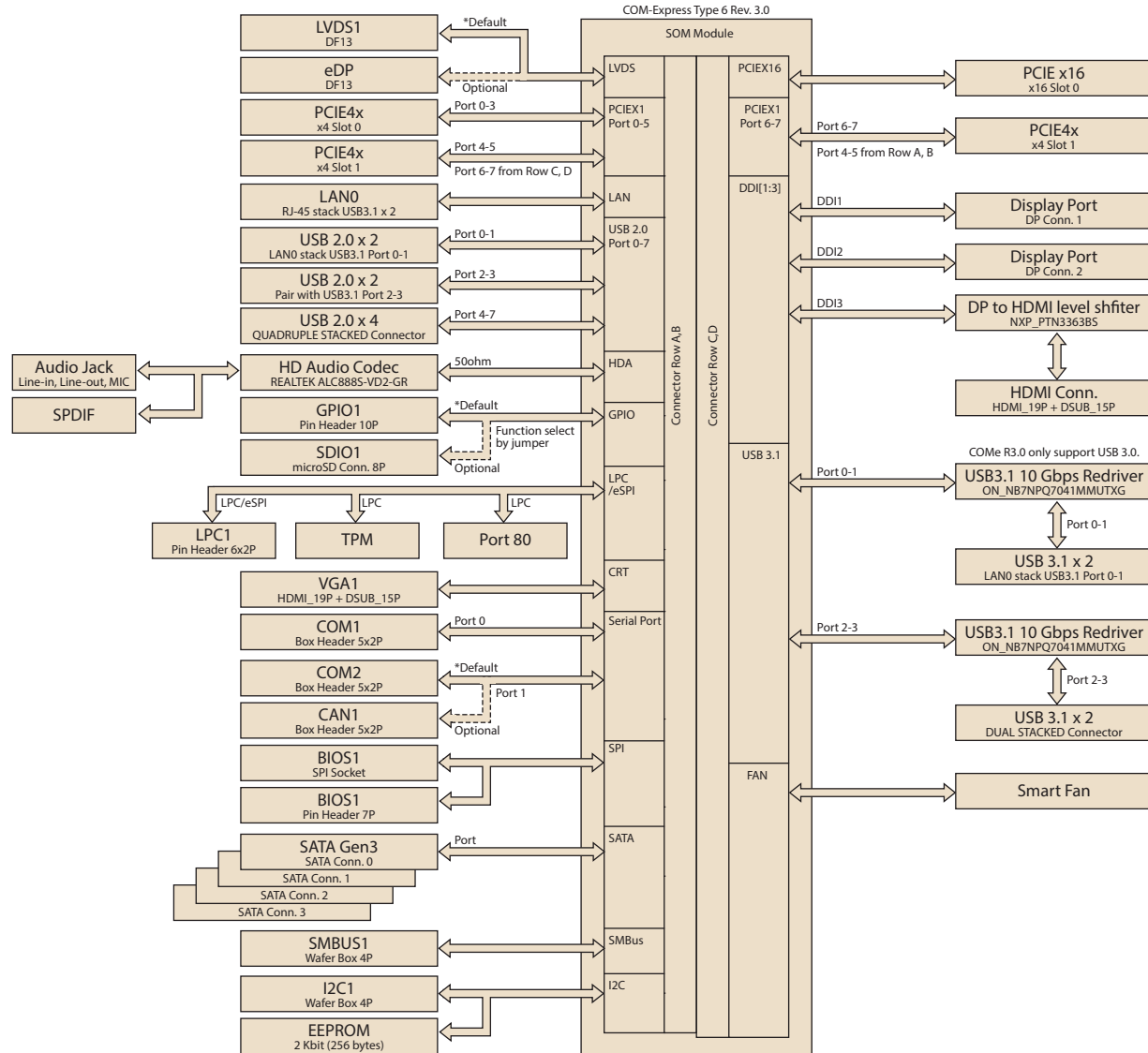
- PICMG COM.0 R3.0 Type 6 Pin out
- COM Express® Basic/ Compact module
- VGA, LVDS/eDP, HDMI/Display port
- Extension: PCIe Raiser Card
- Visible Debug Utility: BIOS Port 80 and Power State



Specifications

| | | |
|-------------------|-----------------------|---|
| Form Factor | | ATX |
| Compatible Models | Form Factor | COM Express Basic Modules (125 x 95 mm)/COM Express Compact Modules (95 x 95 mm) |
| | Pin-out Type | Type 6 Pin-out Compatible |
| Display | VGA | 1 (D-SUB 15P Female) |
| | LVDS/eDP | 18/24-bit single or dual channel |
| | HDMI | 1 |
| | Display Port | 2 |
| Ethernet | Connector | RJ45 |
| | Speed | 10/100/1000 Mbps |
| Expansion | PCI Express x16 | 1 Slot |
| | PCI Express x4 | 2 Slots |
| | LPC | Yes |
| I/O | SATA3.0 | 4 Ports |
| | USB3.1 | 4 Ports (Type A) |
| | COM Port | 2 Ports |
| | GPIO | 8-bit |
| | SDIO | 1 (Mux with GPIO) |
| | SPI Bus | 1 |
| | TPM | TPM2.0 (Infineon SLB9665) |
| | Port 80 | 1 |
| | Fan | 2 (1 smart fan from module side, 1 fixed-voltage fan) |
| | Audio | Line-in, Line-out, MIC, SPDIF (Realtek ALC888 HD Audio Codec) |
| Serial Bus | SMBus | Yes |
| | I ² C Bus | Yes |
| | CAN Bus | Yes (Mux with SER1) |
| Power | Type | ATX: Vin, VSB; AT: Vin |
| | Supply Voltage | Vin: 8.5V ~ 20V; VSB: 4.75V ~ 5.25 V, RTC Battery: 2.0V ~ 3.3V |
| Environment | Operating Temperature | Standard: 0 ~ 60 °C (32 ~ 140 °F) |
| | Storage Temperature | -40 ~ 85 °C (-40 ~ 185 °F) |
| | Humidity | Operating: 40 °C @ 95% relative humidity, non-condensing Storage: 60 °C @ 95%relative humidity, non-condensing |
| | Vibration Resistance | 3.5 Grms |
| Mechanical | Dimensions | 304.8 mm x 244 mm (12" x 9.6") |

Block Diagram



Ordering Information

| Part No. | Description |
|------------------|--|
| SOM-DB5830-00A1 | COM Express R3.0 Type 6 Development Board (LVDS version) |
| SOM-DB5830A-00A1 | COM Express R3.0 Type 6 Development Board (eDP version) |

Any other SKUs or combination is project based support. Please contact sales for details.

Packing List

| Part No. | Description | Quantity |
|----------------|---|----------|
| SOM-EA10 A2 | PCIe x4 - to- 4 PCIe x1 Riser Card (gen3) | 1 |
| 1700008941 | Serial ATA Cable 7P/7P 32cm | 2 |
| 1701100300 | Flat COM Port Cable | 2 |
| 1960077251T000 | I/O Bracket for SOM-DB5830 | 1 |
| 1910001675 | POST M2.5*4L 2.5*5L 2.5 2.1 5 5 Cu Ni | 5 |
| 1920001128 | NUT M D=5 5 2.1 3 Cu Ni | 5 |