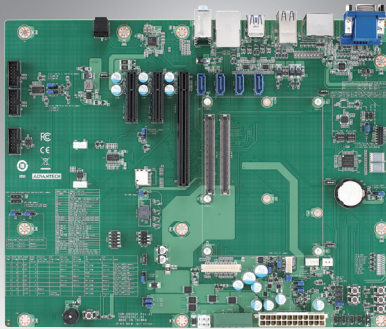


# SOM-DB5830

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

NEW



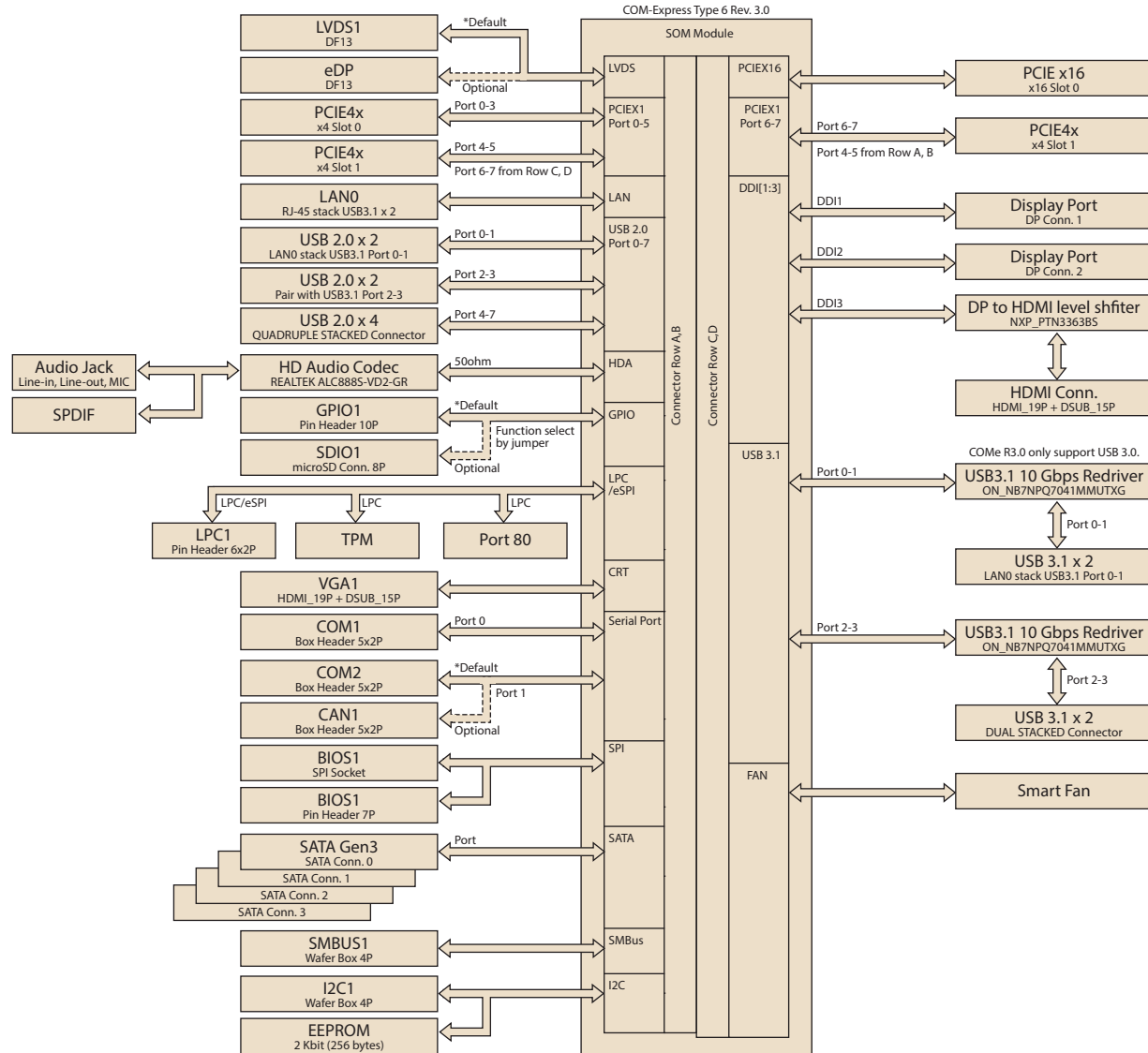
### Features

- PICMG COM.0 R3.0 Type 6/10 Pin out
- COM Express® Basic/ Compact/ Mini module
- VGA, LVDS, 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)/COM Express Mini Modules (84 x 55 mm)
	Pin-out Type	Type 6/10 Pin-out Compatible
Display	VGA	1 (D-SUB 15P Female)
	LVDS	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 <sup>2</sup> 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) Extend: -40 ~ 85 °C (-40 ~ 185 °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 Development Board for Type 6 Pin-Out

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

## Packing List

Part No.	Description	Quantity
SOM-EA10	PCIe x4 - to- 4 PCIe x1 Riser Card	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