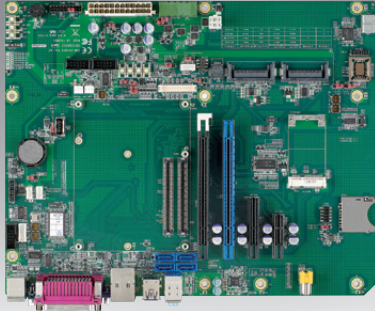


# SOM-DB5800

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



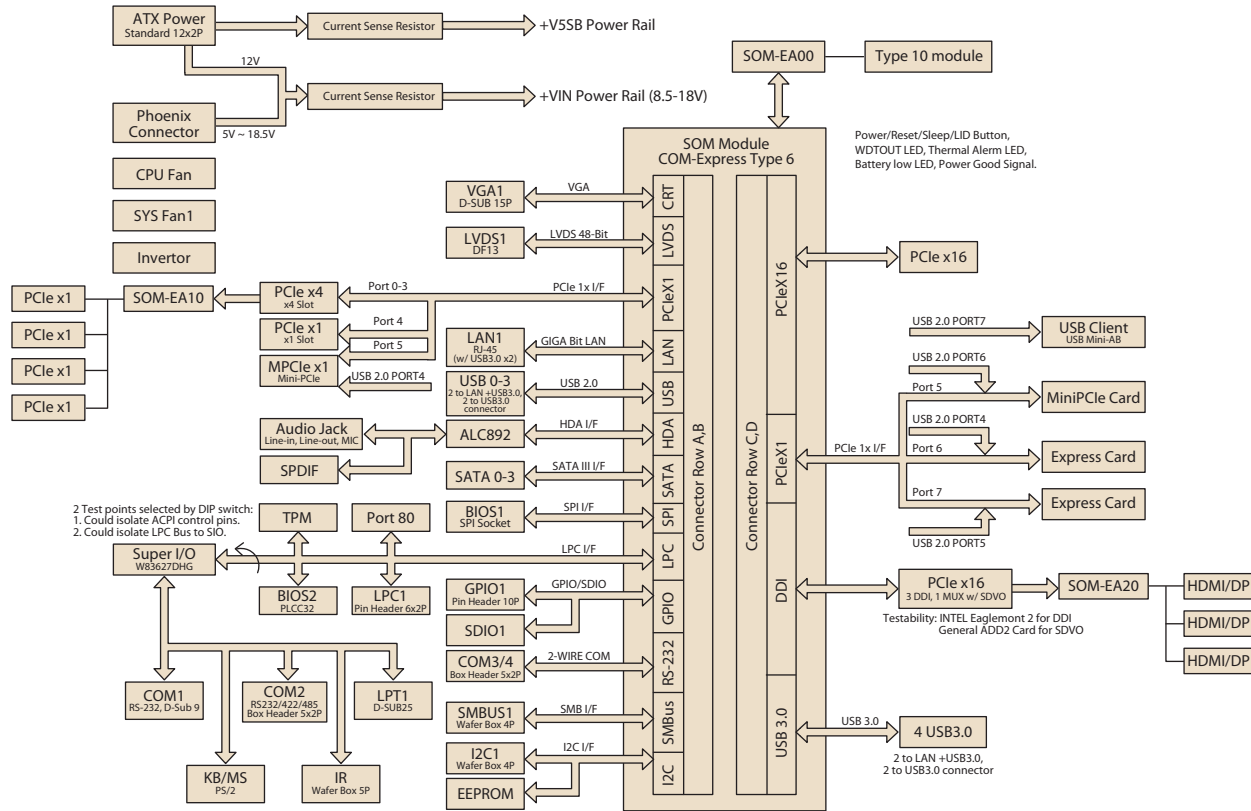
## Features

- PICMG COM.0R 2.1 Type 6/10 Pin out
- COM Express® Basic/ Compact/ Mini module
- VGA, LVDS, HDMI/Display port
- Extension: PCIe Raiser Card and HDMI/ DisplayPort Riser Card
- Visible Debug Utility: BIOS 80 Port and Power State

## Specifications

Compatible Models		Advantech COM Express Basic Modules (125 x 95 mm), COM Express Compact Modules (95 x 95 mm) and COM Express Mini (84 x 55 mm)
Display	LVDS	18/24-bit single or dual channel
	VGA	1 (D-SUB 15P Female)
	HDMI / DP	Up to 3 ports (Expand by SOM-EA20)
Ethernet		1 Giga LAN
Audio	Chipset	Realtek ALC892 HD Audio (Line-in, Line-out, MIC, SPDIF)
Expansion	PCIe slot	1 PCIe x16 slot/1 PCIe x4 slot/1 PCIe x1 slot
	Mini-PCIe socket	1
	Express Card slot	2
	LPC connector	1
I/O	SATA	4 (Type B)
	USB	4 USB2.0 host, include 1 USB Client 4 USB3.0
	Serial	4 COM ports 1 RS-232 (D-SUB 9P), 1 RS-232/422/485, 2 2-Wire RS-232
	KB/MS	1
	LPT	1 (D-SUB 15P)
	GPIO	8
	SDIO	1 (Mux with GPIO)
	SMBus	1
	I2C	1
	SPI	1
	Fan	2 (1 from Module support iManager Smart Fan)
	Port 80	1
	TPM	1
Power	Power Type	ATX/ AT modes
Environment	Operating Temperature	0 ~ 60° C (32 ~ 140° F)
	Humidity	Operating: 40° C @ 95% relative humidity, non-condensing Storage: 60° C @ 95%relative humidity, non-condensing
Mechanical	Dimensions	304.8mm x 244mm (12" x 9.6")

## Block Diagram



## Ordering Information

Part No.	Description
SOM-DB5800-00A2E	COM Express Development Board for Type 6 Pin-out
SOM-DB5800-U0A2E	COM Express Development Board A2 Type 10Pin-out

## Packing List

Part No.	Description	Q'ty
SOM-EA20	COM Express Development Board	1
SOM-EA10	HDMI/DisplayPort Riser Card	1
SOM-EA00	PCIe x4 - to- 4 PCIe x1 Riser Card	1
SOM-EA00	Type10 to Type6 Middle board (For SOM-DB5800-U0A2E only)	1
1700008894	Serial ATA Cable 7P/7P 30cm	2
1701100300	Flat COM Port Cable	2
1960012531T000	I/O Bracket for SOM-DB5800	1
1960052347N000	DDI card Bracket for SOM-EA20	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
1931000590	Screw M2.5*5L	3
1935030500	Screw M3*5L	2