



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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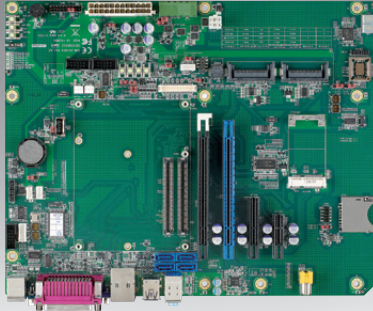
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SOM-DB5800

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



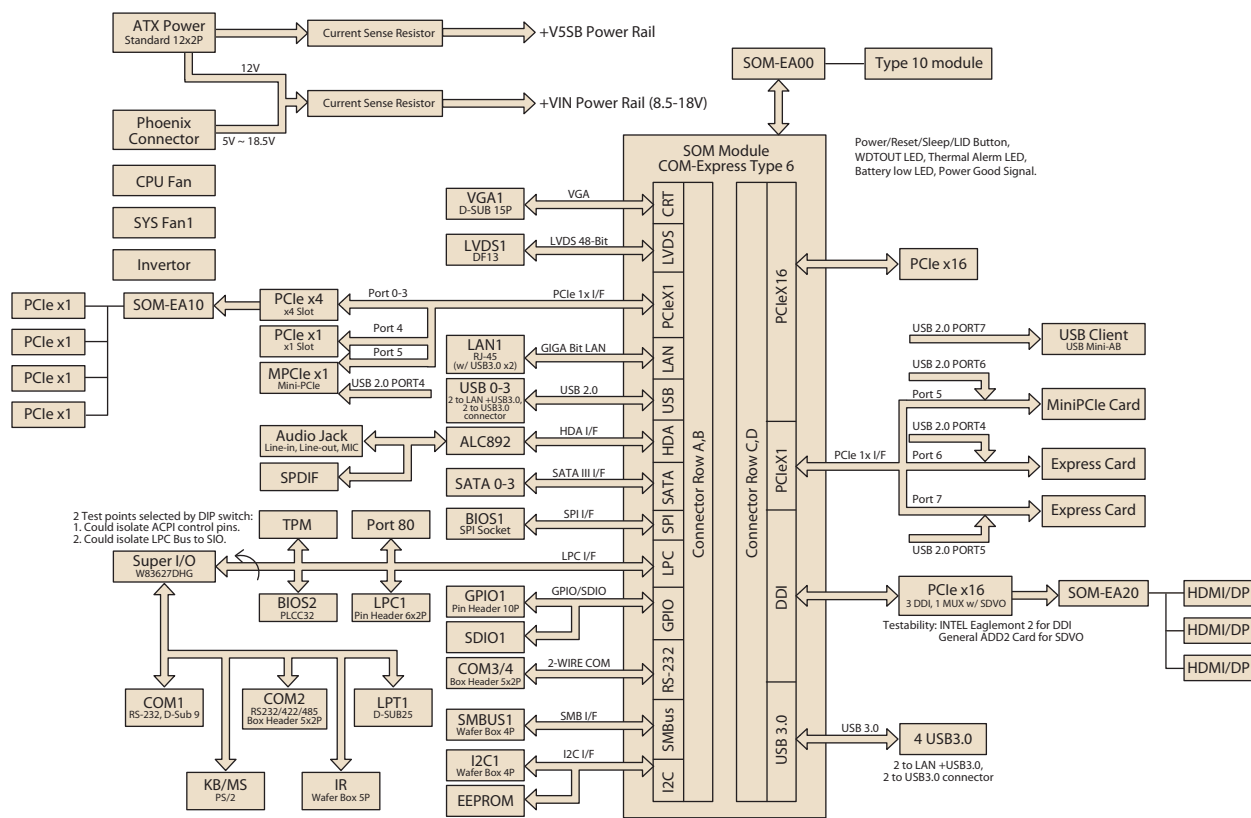
Features

- 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