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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!



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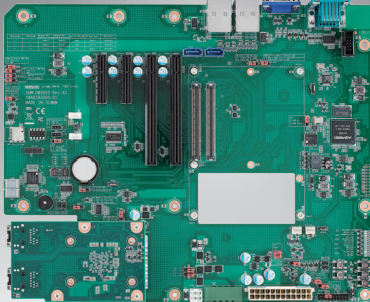
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# SOM-DB5920

## Development Board for COM Express® Type 7 Pin-out Modules

**NEW**



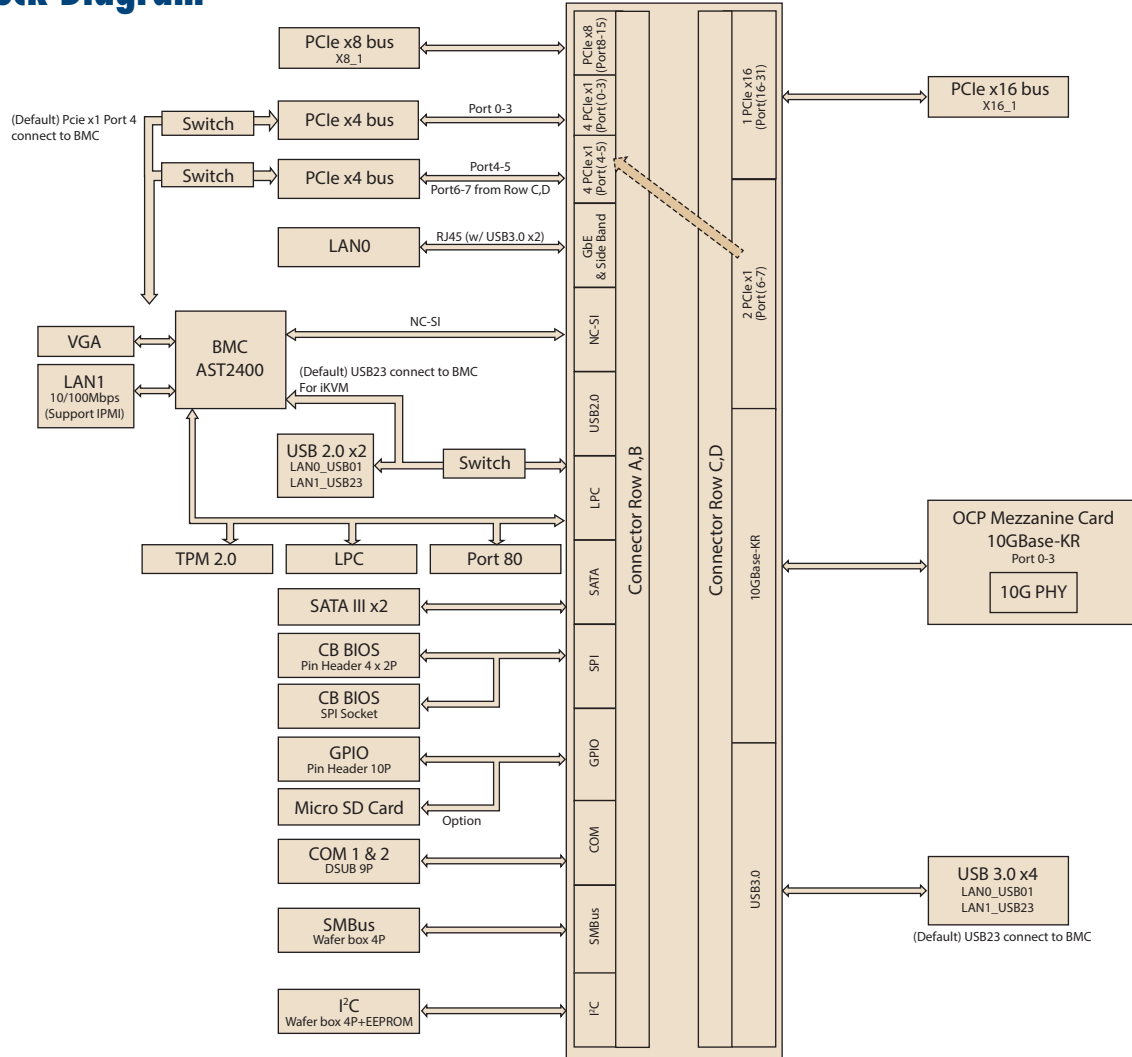
### Features

- PICMG COM.0 R 3.0 Type 7 Pin out
- COM Express® Basic/Compact module
- Extension: PCIe x16, PCIe x8, 2 PCIe x4
- Integrated BMC supports VGA, Dedicated NIC for IPMI, iKVM
- 10 Gigabit Ethernet support by OCP mezzanine card
- Visible Debug Utility: BIOS 80 Port and Power State

### Specifications

Compatible Models	Advantech COM Express Basic Module (125 x 9.5mm) and COM Express Compact Module (95 x 95 mm)	
Graphic	Controller	AST2400 Integrated 2D Graphics Controller
	Frequency	266MHz
	Graphics Memory	512MB @ DDR3-800
Display	VGA	1920 x 1200 (from AST2400)
Expansion	PCI Express x16	1
	PCI Express x8	1
	PCI Express x4	2
	LPC	1
Ethernet	Fast Ethernet	1 port 100Base-T (RJ-45) supports 10/100 Mbps from AST2400, supports IPMI
	Gigabit Ethernet	1 port 1000Base-T (RJ-45) supports 10/100/1000 Mbps from Module side
	10 Gigabit Ethernet	Up to 4 Ports, support 10GBase-T or SFP physical layer transferred by OCP mezzanine card
Serial Bus	SMBus	1
	I <sup>2</sup> C Bus	1
I/O	SATA	2 (Type B Connector)
	USB	4 x USB3.0, 4 x USB2.0 (shared by 4 x USB3.0 Connectors)
	SPI Bus	1
	COM Port	2 x 2-wire COM Ports
	GPIO	8
	SDIO (option)	1 (Pin Mux with GPIO)
	Fan	2 (1 Smart Fan from Module side, 1 fixed-voltage Fan)
	Port 80	1
TPM	TPM2.0	
Power	Type	ATX: Vin, VSB; AT: Vin or Vdc
	Supply Voltage	Vin: 12V ±5%, VSB: 5 ±5% Vdc: 8.5V (9-5%) ~ 20V (19+10%)
Environment	Temperature	Operating Standard: 0 ~ 60° C (32 ~ 140° F) Storage -40 ~ 85° C (-40 ~ 185° F)
	Humidity	Operating: 40° C @ 95% relative humidity, non-condensing Storage: 60° C @ 95% relative humidity, non-condensing
Mechanical	Dimensions	304.8 x 244 mm (12" x 9.6")

## Block Diagram



## Ordering Information

Part No.	Description
SOM-DB5920-00A1	COM Express Development Board for Type 7 Pin-out

## Packing List

Part No.	Description	Quantity
SOM-DB5920	COM Express Development Board	1
SOM-EA60	Dual Ports Copper 10GB LAN Mezzanine Card, with X557-AT2	1
SOM-EA10	PCIex4 to 4 PCIe x1 Riser Card	1
1700008941	Serial ATA Cable 7P/7P 32cm	2
1960046435T100	I/O Bracket for SOM-DB5900	1
1931000590	Screw M2.5* L:5mm (for OCP assembly)	4
1930006864-01	Screw M3* L:8mm	9
1910000035-01	Copper M3* L:15mm	9