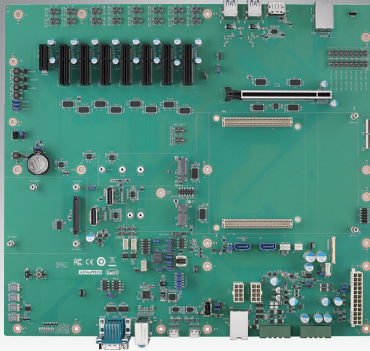


SOM-DH3000

Development Board for COM-HPC Client Pinout Modules

Preliminary



Features

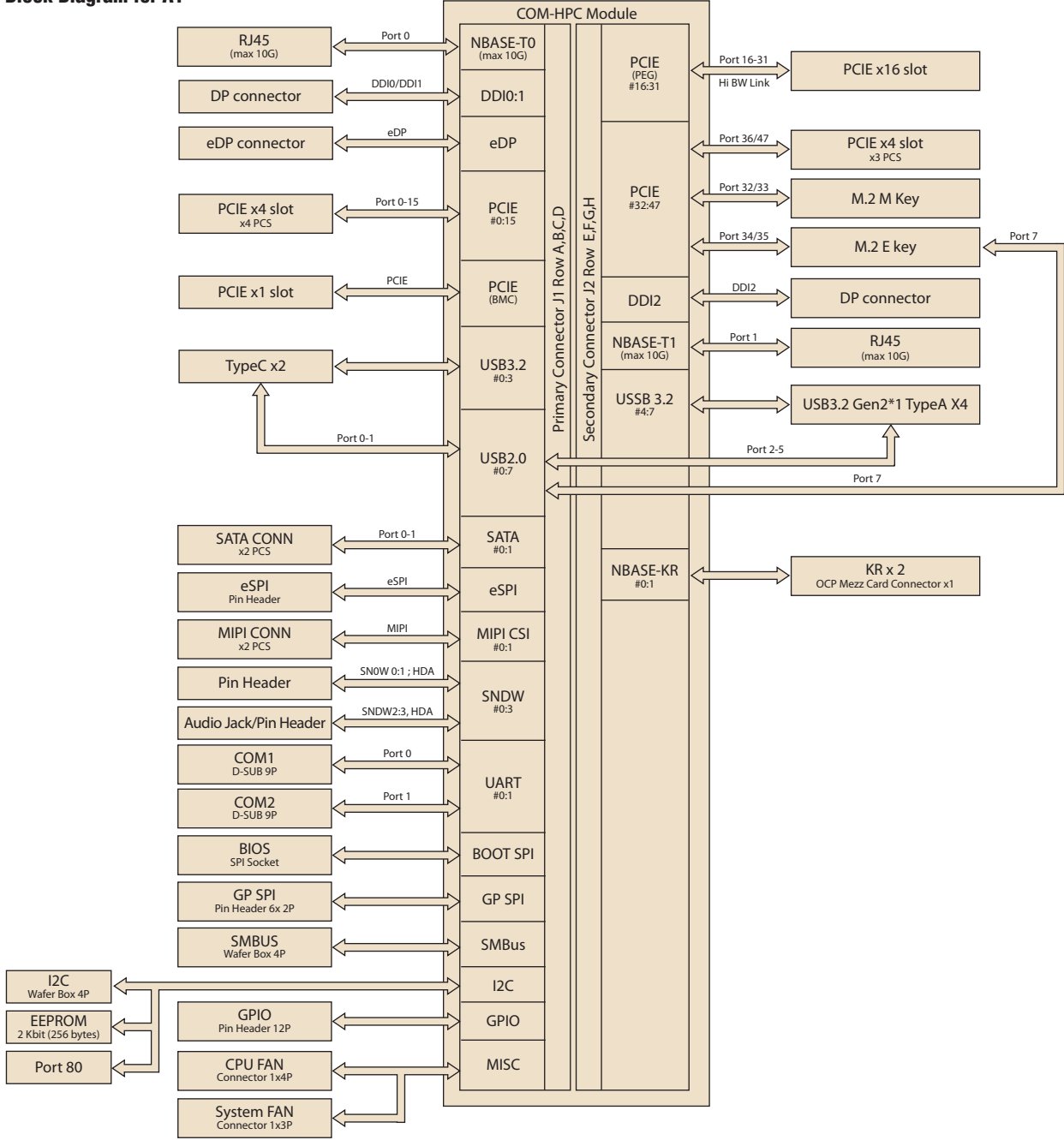
- PICMG COM-HPC Client pinout
- COM-HPC Size A, B and C compatible
- Rich extension: 1 x PCIe x16 (Gen5), 7 x PCIe x4 (Gen5)
- 3 x DDI outputs DP and 1 x eDP interfaces
- 10/25 Gigabit Ethernet support by OCP mezzanine card
- Visible Debug Utility: BIOS 80 Port and Power State

Specifications

Compatible Models		Advantech COM-HPC Client Size A Module (95x120mm), B Module (120x120mm) and C Module (120 x 160mm)
Display	eDP Port	1
	Display Port	3
Expansion	PCI Express x16 (Gen5)	1
	PCI Express x4 (Gen5)	7
	PCI Express x1 (Gen5)	1
	M.2 M Key	1
	M.2 E Key	1
	eSATA	1
Serial Bus	SMBus	1
	I2C Bus	2
	MIPI CSI	2
Ethernet	NBASE-T (RJ45)	2 Ports 2.5GBase-T (RJ-45) supports up to 2.5Gbps from Module side
	ETH (KR) OCP mezz card connector	Up to 8 Ports, support 10G/25G by OCP mezzanine card
I/O	SATA 3.0	2 Ports
	USB3.2 Gen2x1	A1 Version: 4 Ports A2 Version: 8 Ports
	USB3.2 Gen2x2	A1 Version: 2 Ports (Option) A2 Version: N/A
	GP_SPI	1 (6x 2P Pin Header)
	Boot_SPI	1 (SPI Socket)
	COM Port	2 (D-SUB 9P)
	GPIO	12 (12P Pin Header)
	Port 80	1
	FAN	2 (1x 4P Smart Fan Header from Module side, 1x 3P System Fan Header)
	Audio	Line-in, Line-out, MIC (Realtek ALC888 HD Audio Codec)
Power	Type	ATX: Vin, VSB; AT: Vin
	Supply Voltage	A1 Version: Vin: 12V (± 5%); VSB: 5V (± 5%) A2 Version: Vin: 8.5V ~ 20V; VSB: 4.75V ~ 5.25V
Environment	Operating 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	A1 Version: 366 x 330 mm
		A2 Version: 366 x 350 mm

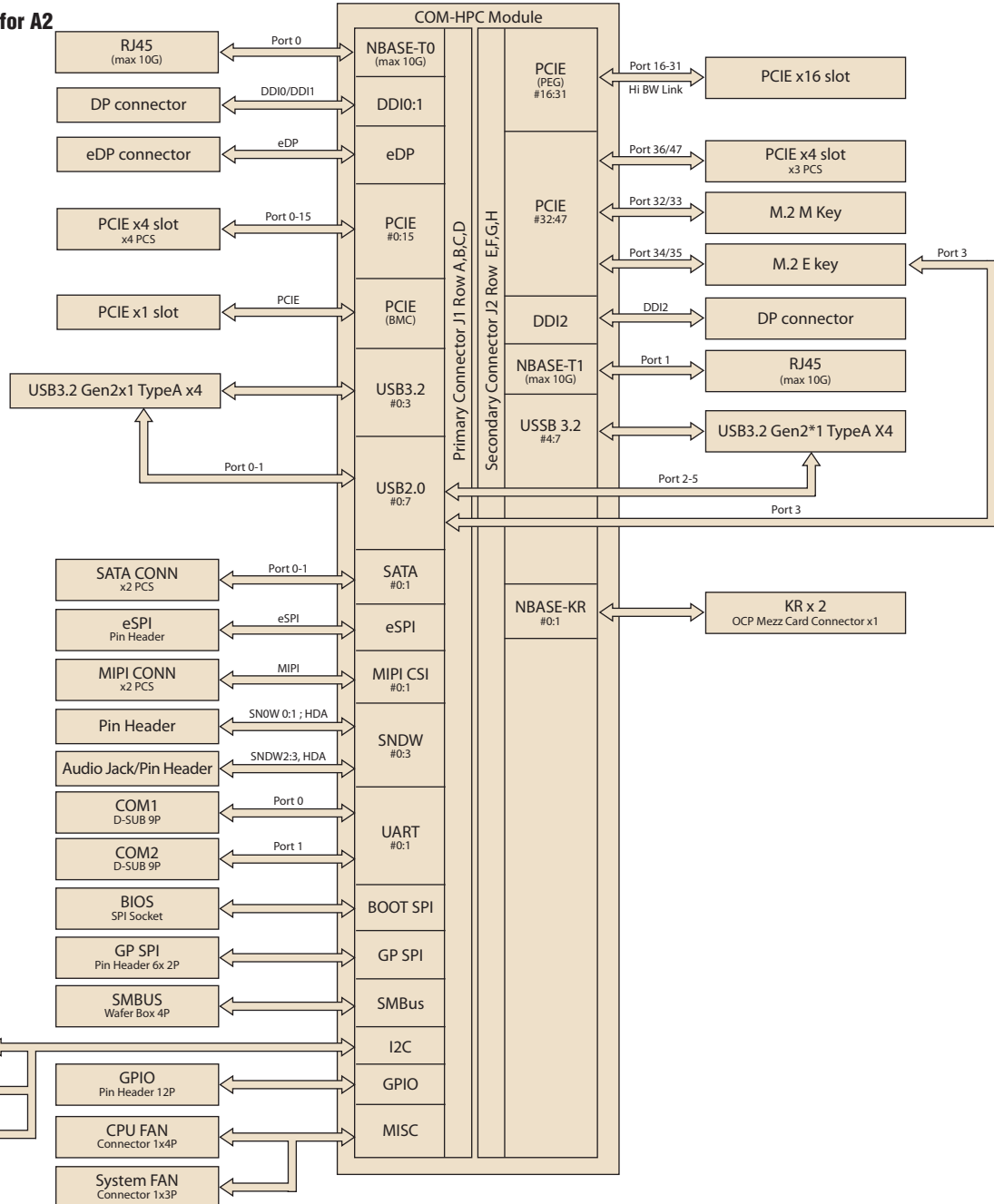
Block Diagram

Block Diagram for A1



Block Diagram

Block Diagram for A2



Ordering Information

Part No.	Description
SOM-DH3000-00A1	COM-HPC Development Board for Client Pinout with 10mm High Board to Board Connector (Alder Lake-S)
SOM-DH3000R-00A1	COM-HPC Development Board for Client Pinout with 10mm High Board to Board Connector (Raptor Lake-S)
SOM-DH3000-00A2	COM-HPC Development Board for Client Pinout with 10mm High Board to Board Connector (Meteor Lake-U/H)

Packing List

Part No.	Description	Quantity
1700008941	M Cable SATA 7P/SATA 7P 32CM 180/180	2