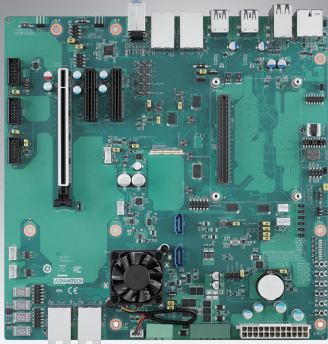


SOM-DH2000

Development Board for COM-HPC Mini Pinout Modules

Preliminary



Features

- PICMG COM-HPC Mini pinout
- COM-HPC Mini compatible
- Rich extension: 1x PCIe x8(Base on PCIe x16 slot), 2x PCIe x4
- Multiple I/O: eDP, DP/HDMI, Dual LAN, USB3, SATA
- Support ATX & DC-in power input
- Visible Debug Utility: BIOS 80 Port and Power State

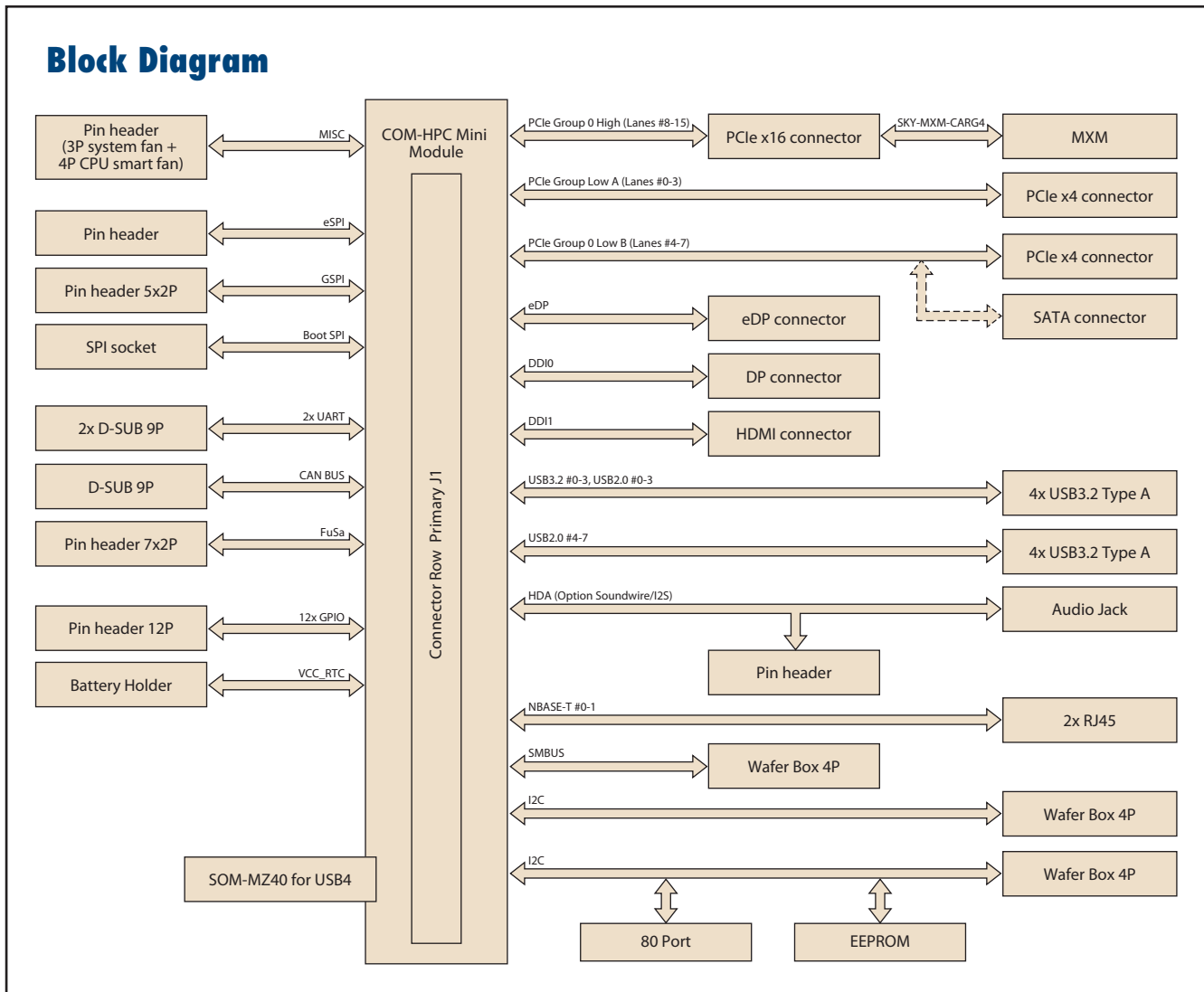
Software APIs:



Specifications

Compatible Models		Advantech COM-HPC Mini R1.2 Module (95x70mm)
Display	eDP	1
	DP	1
	HDMI	1
Expansion	PCI Express x8 (Gen5)	1 (Base on PCIe x16 slot)
	PCI Express x4 (Gen5)	2
Serial Bus	SMBus	1
	I2C Bus	2
Ethernet	NBASE-T (RJ45)	2
I/O	SATA 3.0	1 (Co-lay PCIe x4 Group 0 Low B)
	USB4	Support by SOM-MZ40
	USB3.2 (Gen2)	4 (Type-A)
	USB2.0	8 (Type-A)
	Audio	Line-in, Line-out, MIC (Realtek ALC888 HD Audio Codec) Co-lay Pin header 4x2P
	FAN	3P system fan header + 4P smart fan header
	eSPI	1
	GP SPI	1 (Pin header 5x2P)
	Boot SPI	1 (SPI socket)
	UART	2 (D-SUB 9P)
	CAN BUS	1 (D-SUB 9P)
	FuSa	1 (Pin header 7x2P)
	GPIO	12 (Pin header 12P)
Power	Type	ATX: Vin, AT: Vin.
	Supply Voltage	Vin: 8V ~ 20V
	Battery	1 (Battery holder for VCC_RTC)
Environment	Operating Temperature	0 ~ 60 °C (32 ~ 140 °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
Mechanical	Dimensions	250 x 250 mm (9.84" x 9.84")

Block Diagram



Ordering Information

Part No.	Description
SOM-DH2000-00A1	COM-HPC Mini Development Board Pinout R1.2 with 10mm High Board to Board Connector

Packing List

Part No.	Description	Quantity
1700008941	Serial ATA Cable 7P/7P 32cm	1
1701100300	F Cable IDE#3 10P-2.54/D-SUB 9P(M) 30cm	3