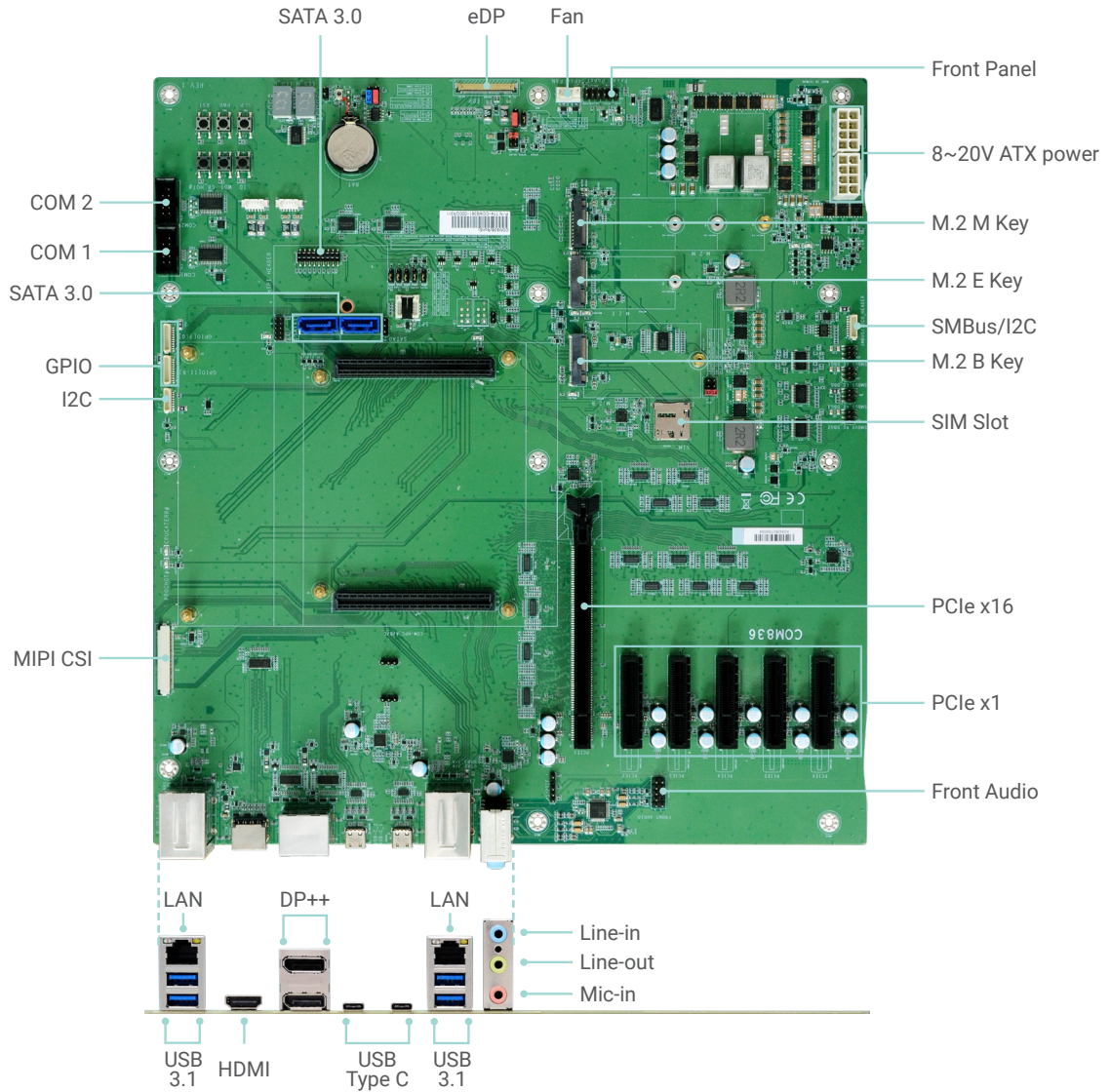


COM836

COM HPC[®] Carrier Board
Extend ATX form factor



KEY FEATURES



Multiple Displays

HDMI, DP, eDP



Multiple Expansion

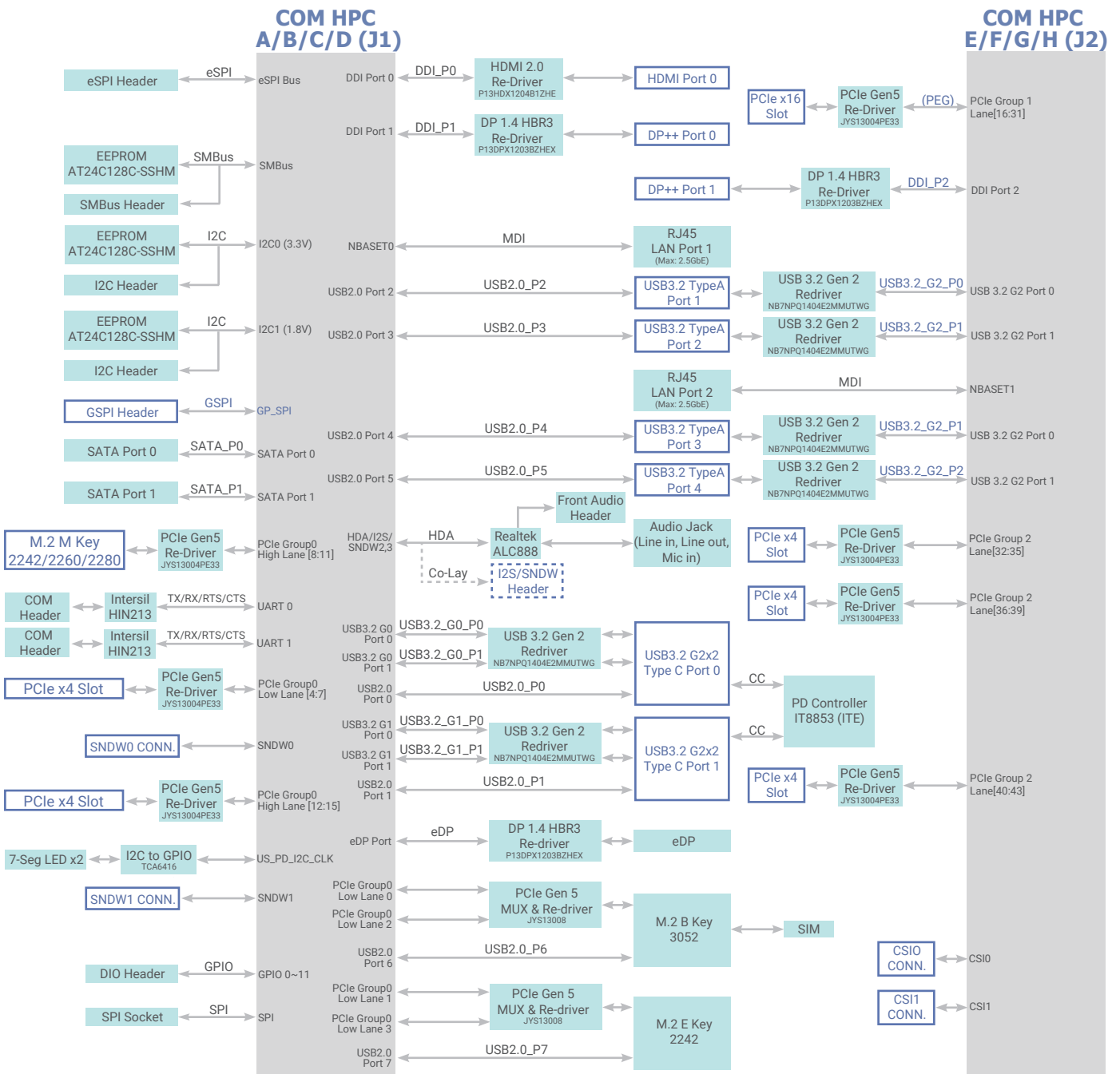
1 PCIe x16, 4 PCIe x4,
1 M.2 B Key, 1 M.2 E Key,
1 M.2 M key



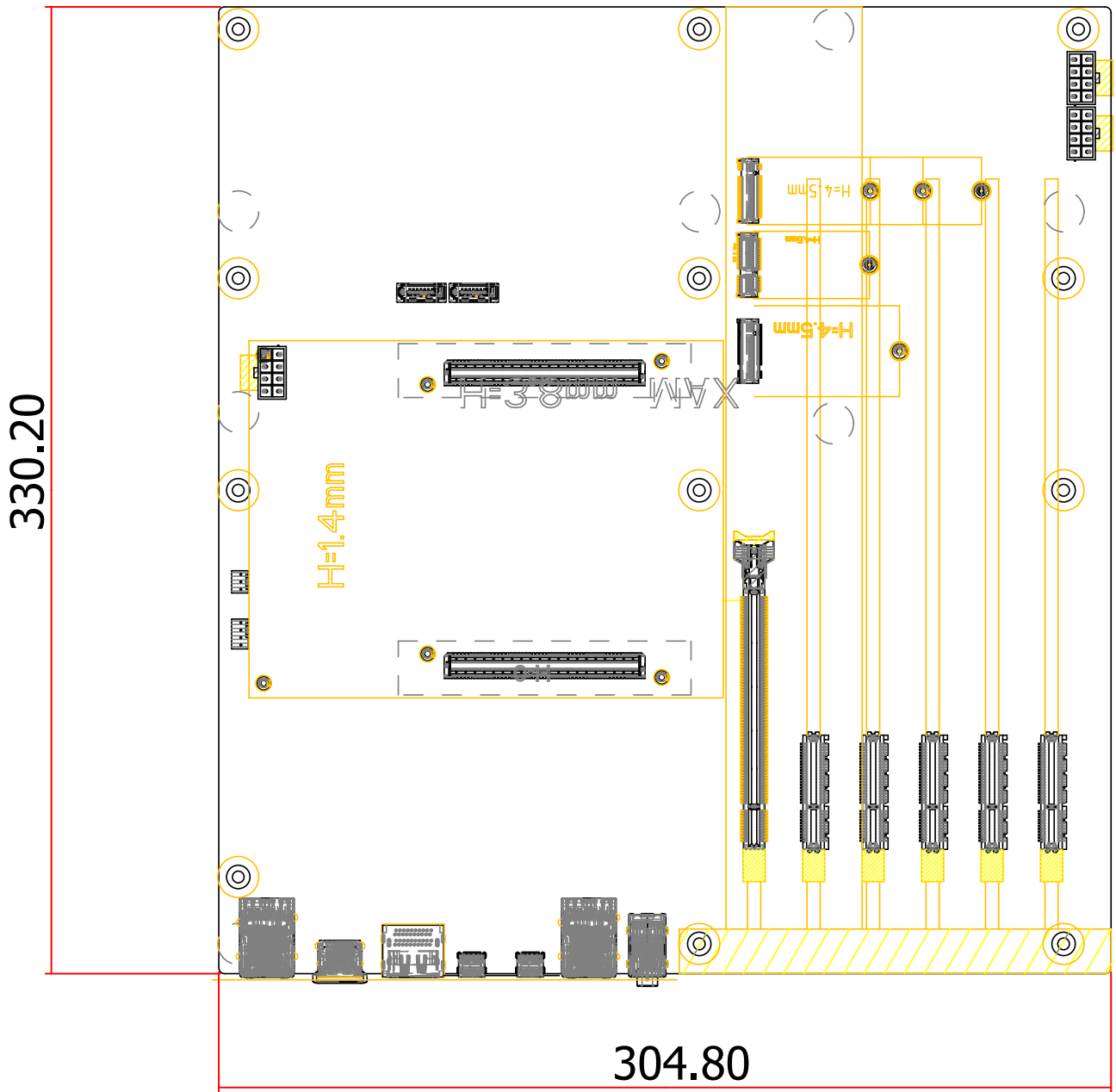
Rich I/O

2 2.5 GbE, 2 USB 3.1,
2 USB 3.2, 4 USB 2.0

BLOCK DIAGRAM



MECHANICAL DRAWING



SPECIFICATION

GRAPHICS	Display	1 x HDMI 2 x DP++ 1 x eDP	
EXPANSION	Interface	1 x PCIe x16 5 x PCIe x4 1 x M.2 B Key 3052 1 x M.2 E Key 2242 1 x M.2 M key 2242/2260/2280	
AUDIO	Audio Codec	Realtek ALC888	
I/O	Ethernet	2 x 2.5 GbE (RJ-45)	
	USB	2 x USB 3.2 Gen1 type A 2 x USB 3.2 Gen2x2 type C	
	Audio	1 x Line-in 1 x Line-out 1 x Mic-in	
INTERNAL I/O	Serial	2 x COM (TX/RX/CTS/RTS)	
	Display	1 x eDP LCD Panel Connector	
	Audio	1 x Audio (Line-out/Line-in/Mic-in) 1 x S/PDIF	
	SATA	2 x SATA 3.0	
	NBASET SDP	2 x NBASET SDP	
	GPIO	1 x 8-bit GPIO 1 x 4-bit GPIO	
	eSPI	1 x eSPI expansion	
	GP SPI	1 x GP SPI	
	SIM	1 x SIM slot	
	SMBus	1 x SMBus	
POWER	Type	8-20V, 5VSB, VCC_RTC (ATX mode)	8-20V, VCC_RTC (AT mode)
	Connector	2x 4-pin power connector	
	RTC Battery	CR2032 Coin Cell	
ENVIRONMENT	Temperature	Operating: 0°C ~ 60°C	Storage: -40°C ~ 85°C
	Humidity	Operating: 5% ~ 90% RH	Storage: 5% ~ 90% RH
	MTBF	TBD	
MECHANICAL	Dimensions	Extend ATX Form Factor	325mm x 340mm
	Compliance	PICMG COM HPC® R2.0 carrier board	Client size A, B, C
CERTIFICATIONS	Certifications	CE, FCC, RoHS	

ORDERING INFORMATION

Model Name	Part Number	2.5 GbE	USB 3.2	Power	Temp.
COM836	770-COM8361-000G	2	4	ATX/AT	0°C ~ 60°C

PACKING LIST

• 1 COM836 board

OPTIONAL ITEMS

• Serial ATA data cable (Length: 500mm) 332-553001-005G