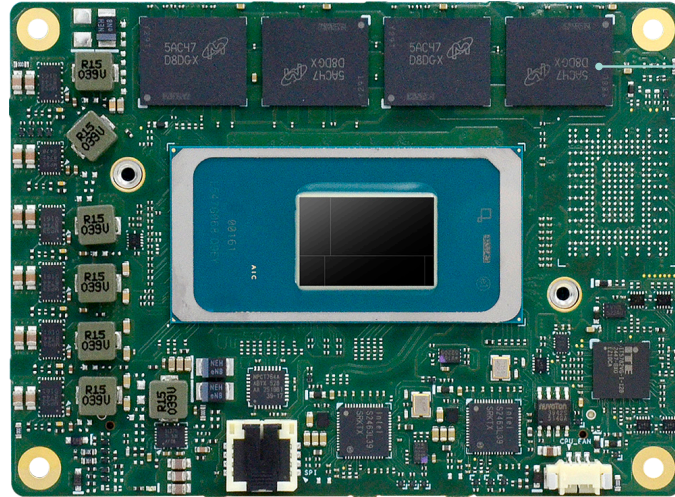


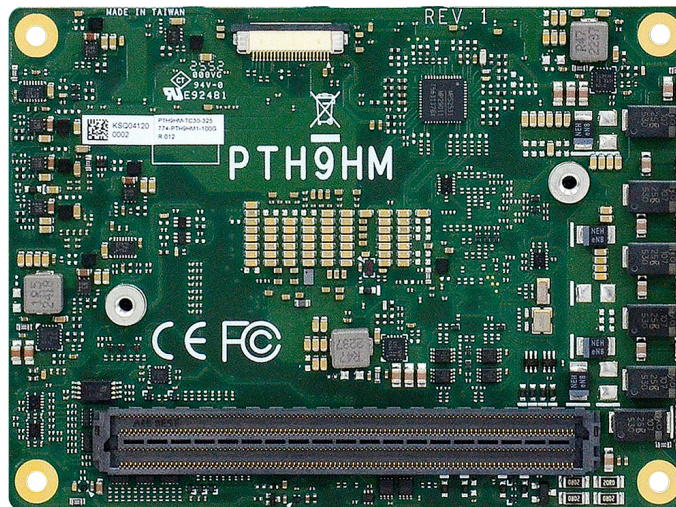
PTH9HM

Intel® Core™ Ultra processors
COM HPC® Mini



LPDDR5

Front View



Bottom View

KEY FEATURES



LPDDR5

UP to 64GB LPDDR5x-8533 memory down



4K High Resolution

Supports 8K / 4K resolution



Multiple Displays

2 DDI, 1 eDP



Multiple Expansion

Up to 8 PCIe x1 (Gen4),
1 PCIe x4 (Gen5)
or 1 PCIe x8
(Gen5, 484 sku only)



RICH I/O

2 Intel 2.5GbE,
3 USB 4.0, 2 USB 3.2

SPECIFICATION

SYSTEM	Processor	Intel® Core™ Ultra Series 3 Processor (Panther Lake)	
	Memory	H484 sku	H404 sku
		Up to 64GB LPDDR5x-8533 memory down	Up to 64GB LPDDR5x-7467 memory down
BIOS	AMI BIOS		
GRAPHICS	Controller	Intel® Xe3 graphics	
	Feature	DX12, Open GL 4.6, Vulkan 1.2 HW Decode: HEVC/VP9/AV1/AVC/H.265/MJPEG HW Encode: HEVC/VP9/AV1/AVC/H.265/MJPEG	
	Display	2 x DDI 1 x eDP	
EXPANSION	Interface	H484 sku	H404 sku
		Up to 8 x PCIe x1 (Gen4) + 1 x PCIe x 8 (Gen5) 2 x I2C 1 x SMBus 1 x SPI 2 x UART	Up to 8 x PCIe x1 (Gen4) + 1 x PCIe x4 (Gen 5) 2 x I2C 1 x SMBus 1 x SPI 2 x UART
AUDIO	Audio Codec	HD Audio	
ETHERNET	Controller	2 x Intel® I226 series (10/100/1000/2500Mbps), co-lay 2 x PCIe x1 (available upon request)	
I/O	USB	Up to 3 x USB 4.0 (co-lay with DDI and USB3) 2 x USB 3.2 Gen.2 8 x USB 2.0	
	NVMe SSD	1 x 128GB/256GB/512GB/1024GB on board SSD (available upon request)	
	DIO	1 x 12-bit DIO	
WATCHDOG TIMER	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds	
SECURITY	TPM	TPM 2.0	
POWER	Type	8.5~20V DC	
	Consumption	TBD	
OS SUPPORT	Microsoft	Windows 11 IoT Enterprise 64-bit	
	Linux	Linux	
ENVIRONMENT	Temperature	Operating: -40 to 85°C Storage: -40 to 85°C	
	Humidity	Operating: 10 to 90% RH Storage: 10 to 90% RH	
	MTBF	TBD	
MECHANICAL	Dimensions	COM HPC® Mini 95mm (3.74") x 70mm (2.76")	
	Compliance	PICMG COM HPC® R1.2, Mini	
STANDARDS AND CERTIFICATIONS	Certification	CE, FCC, RoHS	