

PTH961

Intel® Core™ Ultra Series 3 processors
COM Express® Basic



KEY FEATURES



LPDDR5

UP to 64GB LPDDR5x-8533 memory down



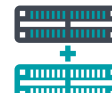
8K High Resolution

Supports 8K / 4K resolution



Multiple Displays

3 DDI, 1 LVDS/ eDP



Multiple Expansion

Up to 20 PCIe Lanes



Rich I/O

1 Intel 2.5GbE, 2 USB 4.0, 4 USB 3.2

SPECIFICATION

SYSTEM	Processor	Intel® Core™ Ultra Series 3 Processor Panther Lake Intel® Core™ Ultra X7 358H (4 P-Cores x 1.9GHz, 8 E-Cores x 1.5GHz, 4 LP E-Cores x 1.5GHz, 18MB cache, 25W) Intel® Core™ Ultra 5 325 (4 P-Cores x 2.1GHz, 4 LP E-Cores x 1.6GHz, 18MB cache, 25W)	
	Memory	Up to 64GB (optional to 96GB) LPDDR5x-8533 memory down (IBECC supported)	
	BIOS	AMI BIOS	
GRAPHICS	Controller	Intel® Arc Graphics or Intel® Graphics	
	Feature	DX12, Open GL 4.6, Vulkan 1.2 HW Decode: HEVC/VP9/SCC/AV1/AVC HW Encode: HEVC/VP9/SCC/AVC	
	Display	3 x DDI (DDI3 co lay with USB3) 1 x LVDS/eDP	
EXPANSION	Interface	404/12Xe sku: Up to 8 x PCIe x1 (Gen4) + 1 x PCIe x4 (Gen5) 484 sku: Up to 8 x PCIe x1 (Gen4) + 1 x PCIe x8 (Gen5) + 1 x PCIe x4 (Gen5) 1 x I ² C 1 x SMBus 1 x eSPI 2 x UART	
AUDIO	Audio Codec	HD Audio	
ETHERNET	Phy	1 x Intel® I226 series (10/100/1000/2500Mbps), co-lay 1 x PCIe x1 (available upon request)	
I/O	USB	Up to 2 x USB 4.0 (co-lay with DDI, available upon request) 4 x USB 3.2 Gen.2 8 x USB 2.0	
	SATA	2 x SATA 3.0 (up to 6Gb/s), co-lay PCIe x1 (available upon request)	
	NVMe SSD	1 x 128GB/256GB/512GB/1024GB on board SSD (available upon request)	
	DIO	1 x 8-bit DIO	
WATCHDOG TIMER	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds	
SECURITY	TPM	TPM 2.0	
POWER	Type	8.5V~20V, 5VSB, VCC_RTC (ATX mode) 8.5V~20V, VCC_RTC (AT mode)	
	Consumption	TBD	
OS SUPPORT	Microsoft	Windows 11 IoT Enterprise 64-bit	
	Linux	Linux	
ENVIRONMENT	Temperature	Operating: -40 to 85°C for ET CPU skus, 0 to 60°C, Storage: -40 to 85°C	
	Humidity	Operating: 10 to 90% RH Storage: 10 to 90% RH	
	MTBF	TBD	
MECHANICAL	Dimensions	COM Express® Basic	125mm (4.92") x 95mm (3.74")
	Compliance	PICMG COM Express® R3.1, Type 6	
CERTIFICATIONS	Certifications	CE, FCC, RoHS	