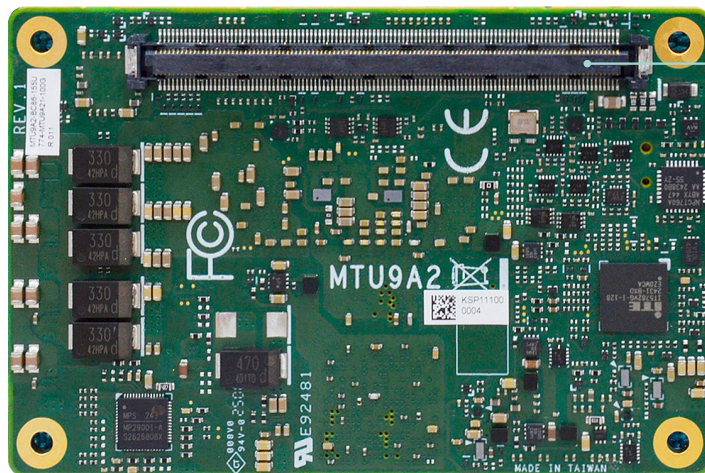


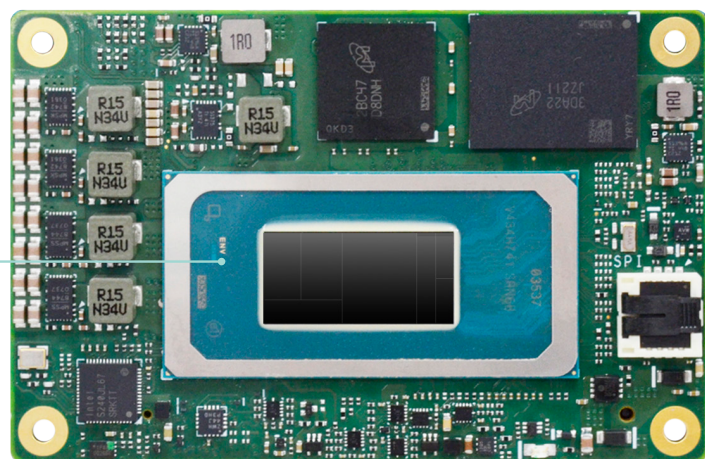
MTU9A2

Intel Core Ultra Processors
COM Express[®] Mini



LPDDR5

Top View



Intel Core Ultra Processors

Bottom View

KEY FEATURES



LPDDR5

LPDDR5-7467 up to 16GB



4K High Resolution

Supports 4K/ 2K resolution



High Speed Ethernet

Supports 100M/1000M/2.5Gbps



Multiple Expansion

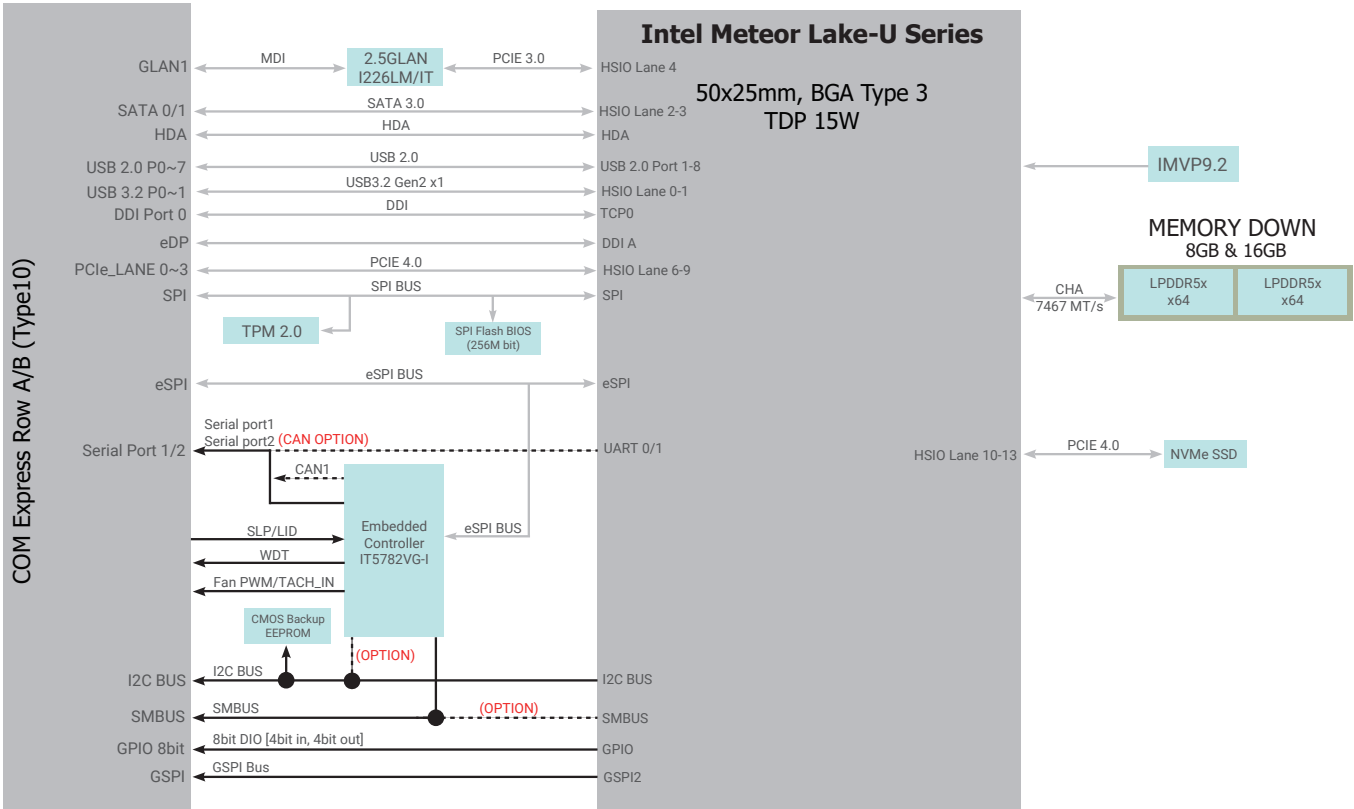
4 PCIe x1, 1 SMBus, 1 I²C, 1 NVMe SSD



Rich I/O

2 USB 3.2, 8 USB 2.0

BLOCK DIAGRAM



MECHANICAL DRAWING

COMING SOON

SPECIFICATION

SYSTEM	Processor	Intel Core Ultra U-series processors (Code Name : Meteor Lake U) Intel Core Ultra 7 Processor 165U (2 P-Cores x 1.7 GHz, 8 E-Cores x 1.2 GHz, 12MB cache,15W) Intel Core Ultra 7 Processor 155U (2 P-Cores x 1.7 GHz, 8 E-Cores x 1.2 GHz, 12MB cache,15W) Intel Core Ultra 5 Processor 125U (2 P-Cores x 1.3 GHz, 8 E-Cores x 0.8 GHz, 12MB cache,15W)	
	Memory	LPDDR5 up to 16GB	
		Single Channel LPDDR5 7467MHz	
		8GB/16GB supported by project basis.	
		In-band ECC (IB ECC) Supported by Ubuntu	
GRAPHICS	BIOS	AMI SPI 256Mbit	
	Controller	Intel® UHD	
	Feature	DX12, Open GL 4.6, Vulkan 1.2 (Windows)	
		Mesa 3D, Open GL 4.6, Vulkan 1.2 (Linux)	
		HW Decode : 4K60 8b 4:2:0 AVC	
		HW Encode : 4K60 10b 4:4:4 HEVC/VP9/SCC 4K60 8b 4:2:0 AVC	
	Display	1 x DDI	
		1 x eDP	
		eDP: resolution up to 4096x2160 @ 60Hz	
		HDMI: resolution up to 4096x2160 @ 30Hz	
		DP++: resolution up to 4096x2160 @ 60Hz, 3840x2160 @60Hz	
EXPANSION	Dual Displays	DDI + LVDS/eDP	
	Interface	4 x PCIe x1 (Gen 3)	
		1 x I2C	
		1 x SMBus	
		1 x eSPI	
		1 x GSPI	
		2 x UART (TX/RX)	
AUDIO	Interface	HD Audio	
ETHERNET	Controller	1 x Intel® I226-IT (10/100/1000Mbps/2.5Gbps)	
I/O	USB	2 x USB 3.2 Gen2	
		8 x USB 2.0	
	SATA	2 x SATA 3.0 (up to 6Gb/s)	
	NVMe SSD	1 x 64GB/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	dTPM or fTPM (available upon request)	
POWER	Type	4.75V~20V, 5VSB, VCC_RTC (ATX mode)	
		4.75V~20V, VCC_RTC (AT mode)	
	Consumption	TBD	
OS SUPPORT	OS Support (UEFI Only)	Windows 10 IoT Enterprise 64-bit	
		Windows 11	
		Linux	
ENVIRONMENT	Temperature	Operating: -5 to 65°C	
		Storage: -40 to 85°C	
	Humidity	Operating: 5 to 90% RH	
		Storage: 5 to 90% RH	
	MTBF	TBD	
MECHANISM	Dimensions	COM Express® Mini	84mm (3.3") x 55mm (2.16")
	Compliance	PICMG COM Express® R3.1, Type 10	
STANDARDS AND CERTIFICATIONS	Certifications	CE, FCC	

PACKING LIST

Heatsreader	TBD
-------------	-----

OPTIONAL ITEMS

Cooler	TBD
COM335 Carrier Board Kit	770-CM3351-000G