

X6-MTH

Intel Core Ultra Processor
Edge AI Box



KEY FEATURES



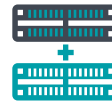
NPU integrated Intel Core Ultra mobile processor

Up to 8.2 eTOPS dedicated AI accelerator



Remote BIOS update and OTA

Support Remote management by DFI OOB



Multiple Expansions

3 M.2 B, E, M key expansion slots



DDR5

Dual Channel DDR5 5600MHz SODIMM up to 64GB



4K High Resolution

Supports 4K / 2K resolution



PANEL



Front View



Rear View

SPECIFICATION

SYSTEM	Processor	Intel® Core™ Ultra 7 165U (2 P-Cores x 1.7 GHz, 8 E-Cores x 1.2 GHz, 12 MB cache, 15W) Intel® Core™ Ultra 7 155U (2 P-Cores x 1.7 GHz, 8 E-Cores x 1.2 GHz, 12 MB cache, 15W) Intel® Core™ Ultra 5 155U (2 P-Cores x 1.6 GHz, 8 E-Cores x 1.1 GHz, 12 MB cache, 15W) Intel® Core™ Ultra 5 135U (2 P-Cores x 1.3 GHz, 8 E-Cores x 0.8 GHz, 12 MB cache, 15W) Intel® Core™ Ultra 7 165H (6 P-Cores x 1.4 GHz, 8 E-Cores x 0.9 GHz, 24 MB cache, 28W) Intel® Core™ Ultra 7 155H (6 P-Cores x 1.4 GHz, 8 E-Cores x 0.9 GHz, 24 MB cache, 28W) Intel® Core™ Ultra 5 135H (4 P-Cores x 1.7 GHz, 8 E-Cores x 1.2 GHz, 18 MB cache, 28W) Intel® Core™ Ultra 5 125H (4 P-Cores x 1.2 GHz, 8 E-Cores x 0.7 GHz, 18 MB cache, 28W)
	Memory	Two 260-Pin SO-DIMM up to 64GB Dual Channel DDR5 5600MHz
	BIOS	AMI SPI
GRAPHICS	Controller	Intel® Iris® Xe 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	1 x VGA 1 x HDMI
STORAGE	Interface	1 x 64GB/128GB/256GB/512GB/1024GB on board SSD M.2 2280 M key (SATA 3 and PCIe gen3 x4 for NVMe) Optional 1x 2.5" SATA tray kit
EXPANSION	Interface	1 x M.2 3042/3052 B key (PCIex2, USB 2.0) and 1 x Nano SIM slot 1 x M.2 2230 E key (PCIe x1, USB 2.0) 2 x M.2 2242/2280 M key (PCIe gen3 x1 for NVMe) 1 x M.2 A key for DFI OOB
ETHERNET	Controller	1 RJ45 GbE from I226LM 1 RJ45 GbE from Intel i210AT
LED	Indicators	1 x Power Status 1 x HDD activity
FRONT I/O	Ethernet	2 x RJ45 GbE
	USB	2 x USB 3.2 2 x USB 2.0
	Display	1 x VGA 1 x HDMI
	DC in	1 x 4-pin power terminal block
	Serial	1 combo DB-9 RS232/422/485/ CAN bus/ GPIO port
FLANK I/O	Antenna	4 x antenna holes
INTERNAL I/O	OOB	Support DFI OOB module
SECURITY	TPM	TPM 2.0
POWER	Type	9-36V DC
	Connector	1 x 4-pin terminal block
	RTC Battery	CR2032
OS SUPPORT	Microsoft	Windows 10, 11
	Linux	Ubuntu 22.04
MECHANISM	Construction	Aluminum + SGCC
	Mounting	Wall mount (mounting brackets and screws) DIN mount by optional
	Dimensions (W x H x D)	165 x 65 x 150 mm
	Weight	< 2 kg
ENVIRONMENT	Operating Temperature	-20°C to 60°C (sku dependent)
	Storage Temperature	-40°C to 85°C
	Relative Humidity	5 to 95% RH (non-condensing)
STANDARDS AND CERTIFICATIONS	Shock	Operation IEC 60068-2-27 Test Ea: Shock test Half-sine, 3G @ 11ms, 18 Shock ±X, ±Y, ±Z (each axis 3 times) Non- Operation IEC 60068-2-27 Test Ea: Shock test Half-sine, 5G @ 11ms, 18 Shock ±X, ±Y, ±Z (each axis 3 times)
		Operation IEC 60068-2-64 Test Fh: Vibration board-band random test Random, 2Grms @ 5~500 Hz, 30min. Non- Operation IEC 60068-2-6 Test Fc: Vibration Sinusoidal Test Sweep sine, 3Grms @ 10~500Hz, 30min.
	Vibration	
	Certification	CE, FCC Class A, RoHS, UL 62368-1