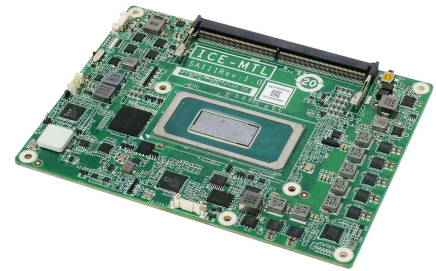


Features

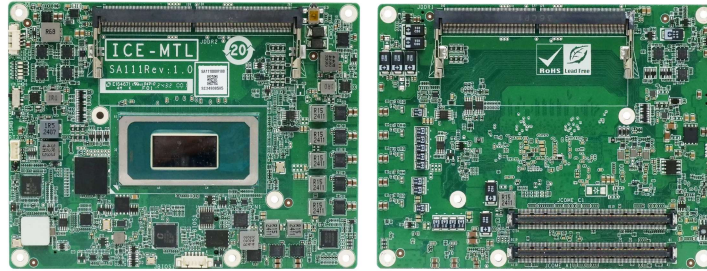
- Standard COM Express Type 6 form factor
- Intel® Core™ Ultra Processors (Series 1) (Meteor Lake)
- Support Quad Independent Display
- Support Ultimate PCIe Gen5 Speed Signal
- Support up to 1TB optional onboard NVMe SSD



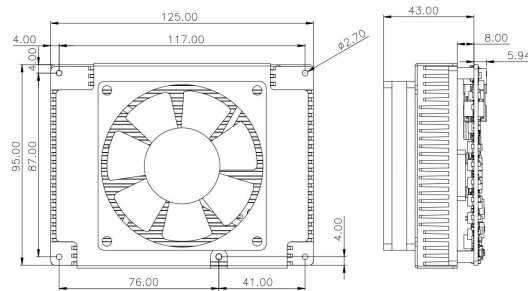
Specifications

MODEL NAME	ICE-MTL-T6B
Form Factor	COM Express R3.1 Type 6
CPU	Intel® Core™ Ultra Processors (Series 1) (Meteor Lake) Intel® Core™ Ultra5 125H Intel® Core™ Ultra7 155H
Memory	2 x 262pin DDR5 5600MHz SO-DIMM up to 96GB
BIOS	UEFI BIOS
Graphic Engine	Intel® New Xe LPG Graphics
Display Output	Quad independent display signals to baseboard 1 x LVDS: 1920 x 1200 or 1 x eDP:4K@ 60 Hz 2 x USB4 :up to 4K @ 60 Hz 1 x HDMI 2.0: Up to 4K@ 60 Hz
Ethernet	1 x PCIe 2.5 GbE with Intel i226-V signal to baseboard
I/O Interface	8 x USB 2.0 signal to baseboard 2 x USB 3.2 Gen2 signal to baseboard 2 x USB 3.2 Gen2 signal from TCP to baseboard 2 x UART signal to baseboard 1 x CAN bus signal to baseboard
Storage	2 x SATA 6Gb/s signal to baseboard onboard NVMe SSD 128/256GB optional (up to 1T)
Expansion	1 x PCIe Gen5 x8 signal to baseboard 4 x PCIe Gen4 x4 signal to baseboard
Front panel	Front panel signal to baseboard
Audio	1 x HD Audio signal to baseboard
SMBus	1 x 4-pin wafer signal to baseboard
I2C	1 x 4-pin wafer signal to baseboard
LPC/eSPI	1 x LPC signal to baseboard or 1 x eSPI signal to baseboard
Watchdog Timer	software programmable support 1~255 sec. System reset
GPIO	8 bit GPIO signal to baseboard
FAN	1 x CPU Fan connector 1 x SYS Fan signal to baseboard
TPM	1 x TPM
CHASSIS OPEN	support
Sleep_BTN	support
LID_BTN	support
Thermal Protection	support
Battery Low Alarm	support
suspend/wake signals	support
Rapid Shutdown	support
Power Supply	ATX: Vin, VSB; AT: Vin 12 V power input
Power Consumption	TBD
Operating Temperature	-10°C~60°C
storage Temperature	-30°C~70°C
Operating Humidity	5%~95% (non-condensing)
Dimension	125 x 95 mm
Power Input	10~28V DC
Power Consumption	TBD
OS	Microsoft Windows® 10/11 IoT, Linux

Fully Integrated I/O



Dimensions (Unit: mm)



Ordering Information

PART NO.	DESCRIPTION
ICE-MTL-T6B-U5B-R10	COM Express Type 6 Basic size Module,Intel® Meteor Lake H Ultra 5 125H Processor,DDR5,USB4, LVDS, DDI, PCIE Gen5, 2.5GbE, SA TAIII, USB 3.0 and HD Audio, RoHS
ICE-MTL-T6B-U7B-R10	COM Express Type 6 Basic size Module,Intel® Meteor Lake H Ultra 7 155H Processor,DDR5,USB4, LVDS, DDI, PCIE Gen5, 2.5GbE, SA TAIII, USB 3.0 and HD Audio, RoHS

Packing List

ITEM	PART NO	Q'TY
ICE-MTL-T6B single board computer	1	
Cooler module	1	
QIG (Quick Installation Guide)	1	

Options

ITEM	PART NO	DESCRIPTION
Baseboard	ICE-CB-T6A-R10	Base Board for COM Express Type 6 Module COM.0 Rev. 3.1, USB4 & PCIe Gen4