# ICE-MTL-T6B

COM Express Type 6 Basic size module with Intel® Meteor Lake Core™ Ultra processor. Supports DDR5, LVDS, DDI, PCIe Gen5, 2.5GbE, SATAIII, USB4 and HD Audio. RoHS compliant.

## Features

» Support Intel® Intel® Core™ Ultra processor Series 1 (Meteor Lake-U platform) processor

» Support DDR5-5600 SO-DIMM, up to 96GB

» Support On board SSD (Option)

» Support PCIe Gen5, USB4, 2.5GbE

## Specifications

| | |
|---|---|
| Form Factor | |
| Form Factor | COM Express |
| System | |
| CPU | Intel® Core™ Ultra Processors (Series 1) (Meteor Lake) |
| | Intel® Core™ Ultra5 125H |
| | Intel® Core™ Ultra7 155H |
| Memory | 2 x DDR5-5600 SO-DIMM |
| Memory Max. | 96GB |
| Cooling method / System Fan | 1 x CPU Fan connector |
| | 1 x SYS Fan signal to baseboard |
| Physical Characteristics | |
| Dimensions (LxWxH) (mm) | 125 x 95 mm |
| Storage | |
| Storage | 1 x On-Board SSD (optional) |
| | 2 x SATA : 6Gb/s signal to base board |
| I/O Interface | |
| Display Output | 1 x HDMI™ : signal to baseboard, 3840 x 2160 @ 60Hz |
| | 1 x LVDS : colay with eDP |
| | 2 x USB4 : signal to baseboard, 3840 x 2160 @ 60Hz |
| Ethernet | 1 x LAN : 2.5 GbE Intel® I226-V signal to baseboard |
| Audio | 1 x HD Audio : signal to baseboard |
| I/O Interface | 1 x CAN-bus/OBD-II : signal to baseboard |
| | 1 x GPIO : 8 bit GPIO signal to baseboard |
| | 1 x I²C : 4-pin wafer signal to baseboard |
| | 2 x UART : signal to baseboard |
| | 12 x USB -<br>8 x USB 2.0 signal to baseboard<br>4 x USB 3.2 Gen2 signal to baseboard |

| | |
|---|---|
| Expansion | 5 x PCIe - |
| | 1 x PCIe Gen5 x8 signal to baseboard |
| | 4 x PCIe Gen4 x4 signal to baseboard |
| Power | |
| Power Supply | 5V DC |
| Environment | |
| Operating Temperature | -10°C ~ 60°C |
| Storage Temperature | -30°C ~ 70°C |
| Humidity | 5% ~95%, non-condensing |

## Ordering Information

| | |
|---|---|
| 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, SATAIII, USB 3.0 and HD Audio, RoHS |
| 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, SATAIII, USB 3.0 and HD Audio, RoHS |

## Packing List

| | |
|---|---|
| 1 x ICE-MTL-T6B single board computer | 1 x Cooler module |
| 1 x QIG | |