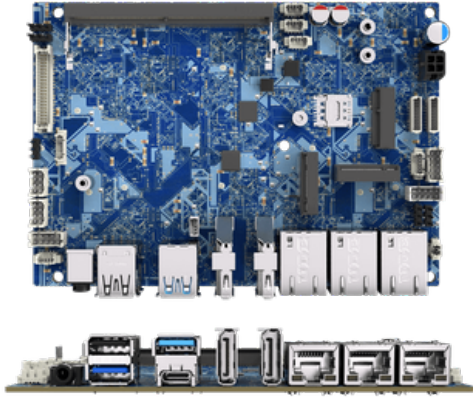




INDUSTRIAL MOTHERBOARD

CT-DML01

3.5" SBC Industrial Motherboard With Intel® Core™ Ultra Series 1 Processors, Meteor Lake-U



Features

- Supports Intel® Core™ Ultra Processors, Meteor Lake-U, TDP 15W
- 1x 262-pin DDR5 5600 SO-DIMM. Max. up to 48GB
- 3x Intel® 2.5 GbE
- Quad simultaneous display: 2x DP, LVDS, eDP
- 1x M.2 M Key for NVMe/ SATA, Auto detect
- 1x M.2 B Key for 4G/5G support, 1x M.2 E Key for Wifi/Bluetooth
- 2x SIM Nano Socket
- 1x USB Type-C Gen 1, 2x USB 3.2 Gen 1, 1x USB 2.0
- 4x Internal COM, 1x 8-bit GPIO
- Watchdog timer 1~255sec. system reset
- dTPM 2.0 Supported
- Wide Voltage DC IN 12~24V



Specifications

System	
Processor	• Intel® Core™ Ultra 5 Processor 125U 12M Cache, up to 4.30 GHz (2+8+2 core) • Intel® Core™ Ultra 7 Processor 155U 12M Cache, up to 4.80 GHz (2+8+2 core)
System Chipset	SoC
LAN Chipset	GbE1: Intel i226-LM 2.5GbE LAN PXE Support GbE2: Intel i226-V 2.5GbE LAN PXE Support GbE3: Intel i226-V 2.5GbE LAN PXE Support
Audio Codec	Realtek® ALC897 CODEC
System Memory	1x 262-Pin DDR5 5600 MT/s SO-DIMM. Max. up to 48GB (Non-ECC)
Watchdog	Software Programmable Supports 1~255 sec. System Reset
TPM	dTPM2.0, fTPM2.0
Display	
Display Port	2x DP++ 1.4 up to 3040x2160 @60Hz
eDP	1x eDP 1.4b, max 3840x2160 @60Hz
LVDS	1x LVDS up to 1920x1200 @60Hz, dual channel
Multiple Display	Quad simultaneous display
Storage	
M.2	1x M.2 M Key (2280, PCIe x4 Gen 4/SATA) support for NVMe/ SATA SSD, Auto Detect
Expansion	
M.2	1 x M.2 B Key (3042/3052, PCIe x2+USB 3.0+USB 2.0) support for 4G/5G 1 x M.2 E Key (2230, PCIe+USB 2.0) for Wifi/Bluetooth
I/O	
Audio	1x Line-Out +MIC
Display Port	2x DisplayPort
LAN	3x 2.5GbE RJ45
SIM	2x SIM Nano Socket
USB	1x USB 3.2 Type-C (5 Gbps) 2x USB 3.2 Gen 1 (5 Gbps) 1x USB 2.0
Internal I/O	
COM	4x COM (Internal) COM1: RS232/422/485 COM2~COM4: RS232
GPIO	1x GPIO 8-pin header (4 In/4 Out, non-isolated) non-isolation
USB	4x USB 2.0 Internal 2.0PH Headers
Operating System	
Windows	Microsoft® Windows 10 / 11
Linux	Ubuntu 22.04 / 24.04 LTS
Power	
Power Adapter	Optional AC/DC 20V/7.5A, 150W (Optional)
Power Mode	AT, ATX
Power Supply Voltage	DC IN 12~24V
Power Connector	Micro fit pitch 3.0 2x2 pin
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection Surge Protection

Environment	
Form Factor	3.5" Embedded SBC
Operating Temperature	0°C to 60°C
Storage Temperature	-20°C to 75°C
Relative Humidity	10% to 95% (non-condensing)
Certification	CE, FCC Class A, ICES-003, UKCA
Physical	
Dimensions	146 x 102mm

Available Models

- CT-DML01-125U-KIT
Industrial 3.5" SBC Motherboard with Intel® Core™ Ultra 125U Processor, 3x 2.5GbE LAN with Cable & Heatsink Kit
- CT-DML01-155U-KIT
Industrial 3.5" SBC Motherboard with Intel® Core™ Ultra 155U Processor, 3X 2.5GbE LAN with Cable & Heatsink Kit

Optional Accessories

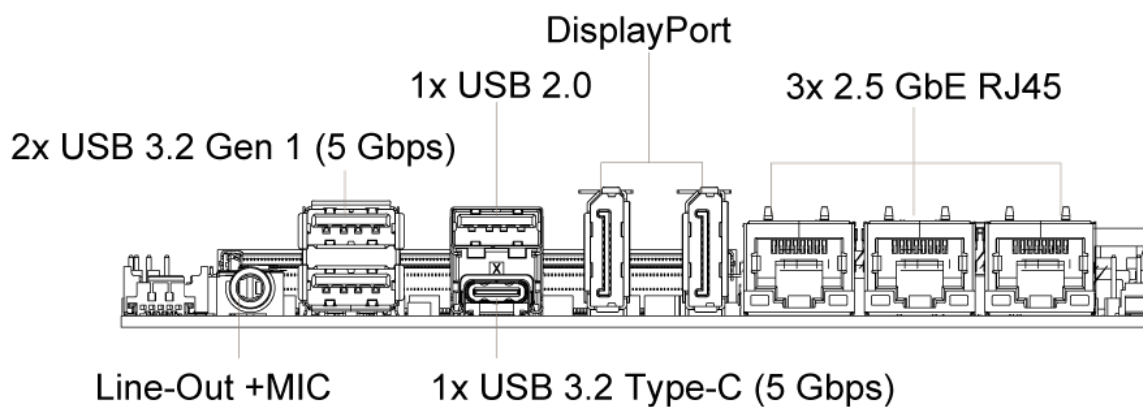
- 1-E09A15001
AC-DC Power Adapter W/Lock 20V_7.5A_150W
- 1-TPCD00001
AC Power Cord UK Type, 1810mm
- 1-TPCD00002
AC Power Cord European Type, 1713mm
- 1-TPCD00003
AC Power Cord JAP Type, 1830mm
- 1-TPCD00005
AC Power Cord US Type, 1830mm
- 1-TBTN00015
Button Cable with LED 150mm
- 1-TPWR00123
4P Micro Fit To DC Plug 5.5 x 2.5 With Lock 150mm
- 1-TPWR00195
3P Terminal Block (Female) to DC Plug 5.5 x 2.5 With Lock, 100mm
- 1-TCOM00056
Dual COM Cable, 150mm
- 1-TUSB00070
USB 2.0 Y Cable 200mm
- 1-TADO00027
Audio Cable Line-in/Mic-in, 100mm
- 1-TDIO00008
DIO Cable 10-Pin 250mm
- 1-TADO00019
Audio Amp Extended Cable
- 1-TSATA00018
SATA Cable 7+15P Cable, 350mm

US Exports And Tariff Codes

ECCN	5A992.c
HTS	8504.90.2000
ScheduleB	8473.30.0002

* All specifications and photos are subject to change without notice.

External I/O Mechanical Layout



Dimension

Unit: mm

