

GMB-IMLPS00

Industrial Motherboard Mini-ITX Form Factor

Intel® Core™ Ultra Processors

Meteor lake-PS Ultra3 / Ultra5 / Ultra7

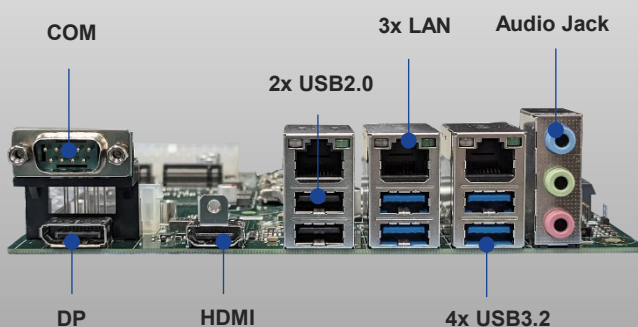
CONTEC Technology for a better life



Features

- LGA 1851 socket supports Intel® Core™ Ultra Processor, formerly the Meteor Lake -PS Platform.
- The Intel® Core™ Ultra Processors combine AI-ready CPU, GPU and NPU delivering stunning graphics and AI focused performance for an edge AI applications
- Supports up to 64GB of DDR5 SO-DIMM memory at 5600 MT/s, ensuring high-speed data processing capabilities.
- Provides extensive connectivity options, including triple LAN ports, Four USB3.2 ports, and four USB2.0 ports.
- Supports displays via HDMI and DP for flexible industrial setups.

Rear I/O



Rich Expansion Interface

Perfectly suited for use in healthcare and production monitoring. From whisper-quiet kiosks to high-performance AI inference boxes, its versatility drives innovation across industries.

HDMI
3840 x 2160 @30Hz **1.4**

DisplayPort
7680 x 4320 @60Hz **1.4**

Support

**Intel® AI Boost
NPU**

Support

TPM 2.0
chip on board

Triple

**Intel® Ethernet
Controller**

I226-LM · I210-AT · I219-LM

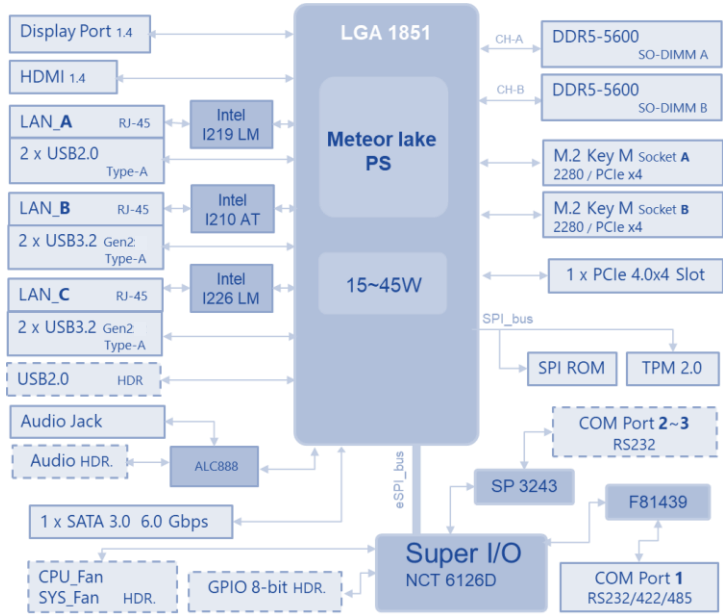
High-Speed

NVMe Gen4x4
M.2 Storage
Interface

MECHANICAL DIMENSIONS



Alpha Release



Motherboard



Specifications	
PROCESSOR	Intel® Meteor lake-PS Ultra3/ Ultra5/ Ultra7 , TDP 15W / 45W, LGA1851 Socket
BIOS	AMI UEFI BIOS
MEMORY	2x DDR5 5600 SO-DIMM up to 64GB non-ECC
GRAPHIC CONTROLLER	Intel® Core™ Ultra Processor integrated Iris® Xe graphics
DISPLAY INTERFACE	1x DP1.4 (7680 x 4320 @ 60Hz) on rear I/O 1x HDMI1.4 (3840 x 2160 @30Hz) on rear I/O
AUDIO	Line out×1 、Line in×1 、MIC in×1 (φ3.5 Stereo Mini jack) Front Audio×1 (Pin header)
STORAGE I/F	2x M.2 Key M 2280 (NVMe Gen4x4) 2 x SATA III (6.0Gb/s) Port
ETHERNET	Triple Ethernet Port support : 1x 10/100/1000/2500 BASE-T (Intel i226-LM) 1x 10/100/1000 BASE-T (Intel i210-AT) 1x 10/100/1000 BASE-T (Intel i219-LM)
USB PORT	4x USB 3.2 ports on rear I/O 2x USB 2.0 ports Front Type A 2x USB 2.0 2ports on 2.54mm pin header
SERIAL PORT	1x RS-232C/422/485 port on rear I/O 2x RS-232 by internal pin header (Baud rate: 50 - 115,200bps)
EXPANSION INTERFACE	1 x PCI-Express Gen4 x4 slot
GPIO	8-bit GPIO
WATCHDOG TIMER	Software programmable, 1 sec ~ 255 sec Time up Active by reset or shutdown
HARDWARE MONITORING	System monitor (Voltage, Fan Speed and Temperature)
POWER MANAGEMENT	ATX power Power On by Ring/ Wake on LAN function
DIMENSION (W) x (H)	Mini-ITX form factor : 170mm x 170mm
TPM	TPM2.0 chip on board
ENVIRONMENT	Operation temperature : 0 to 60°C with CPU FAN
	Storage Temperature: -40 to 80°C Relative Humidity: 5% to 95%, non-condensing
OS DRIVER SUPPORT	Windows®11 IoT Enterprise LTSC 2024 64 bit
CERTIFICATE	CE , FCC (Class A) , UKCA , RoHS2.0