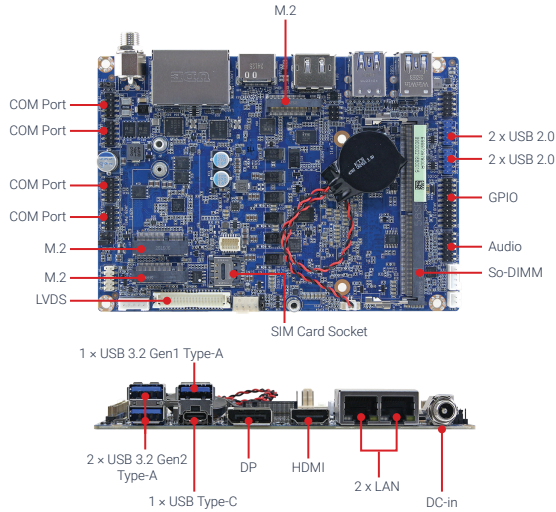




ECM-PTL

3.5" SBC built with the Intel® Core™ Ultra Processor Series 3 onboard



Features

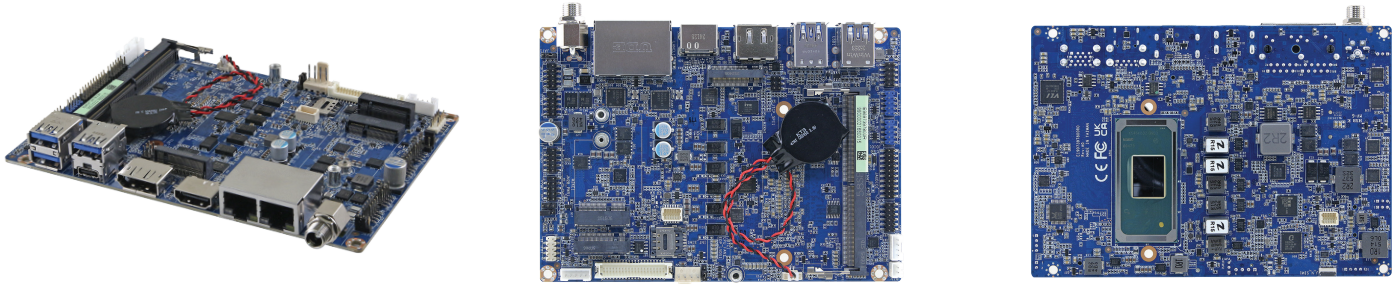
- Intel® Core™ Ultra Series 3 Processor onboard, BGA processor
- Intel® Xe LPG Integrated Graphics
- Formerly the Panther Lake H Platform
- 1 × DDR5 SO-DIMM, H404 up to 6400MHz and H484 up to 7200MHz, supports up to 48GB max (TBC)
- Supports up to four displays: DP + HDMI + LVDS or eDP + USB Type-C DP
- 1 × M.2 M-Key 2280 for NVMe SSD
- 1 × M.2 E-KeE 2230 for Wi-Fi
- 1 × M.2 B-Key (2242/3042/3052) for WWAN/GNSS or PCIe x1 SSD
- 1 × SIM card socket
- Dual LAN (2.5GbE) Intel® Ethernet Controller I226-LM/I226-V
- 2 × USB 3.2 Gen2 Type-A, 1 × USB 3.2 Gen1 Type-A
- 1 × USB Type-C
- +12V ~ +24V Wide Range DC
- TPM 2.0
- Optional Extended temperature

SPECIFICATIONS

System	
Processor	Intel® Core™ Ultra Series 3 Processor, formerly Panther Lake H Platform. BGA processor, processor onboard.
Memory	1 × 262-pin DDR5 SO-DIMM, H404 up to 6400MHz and H484 up to 7200MHz, supports up to 48GB max, non-ECC
BIOS	AMI® UEFI BIOS, 256Mb SPI Flash ROM
Expansion	1 × M.2 M-Key 2280 with PCIe x4 Gen5 for NVMe SSD 1 × M.2 E-KeE 2230 w/PCIe x1 + USB 2.0, CNVi 1 × M.2 B-Key (2242/3042/3052) with PCIe x1, USB 3.2 Gen2 & USB 2.0, supports WWAN/GNSS or PCIe x1 SSD 1 × SIM socket + 1 × FPC SIM, single SIM support, 3.3V/3.8V selectable via jumper, 5G ready
OS Support	Windows® 11 64-bit, Linux
Graphics	
Chipset	Intel® Xe LPG Integrated Graphics
Interface	HDMI 2.1 up to 7680 × 4320 @30Hz DP 2.1 up to 7680 × 4320 @30Hz LVDS up to 1920 × 1080b eDP up to 1920 × 1080 @60Hz
Multi-Display	Supports up to four displays
External I/O Ports	
Chipset	LAN1: Intel® Ethernet Controller I226-LM 2.5GbE (2.5GbE) LAN2: Intel® Ethernet Controller I226-V 2.5GbE (2.5GbE) Optional extended-temperature SKU w/2×Intel® I226-IT (2.5GbE)
LAN Port	2 × RJ45
Audio	
Audio Codec	Realtek HD Audio
Amplifier	3W × 2 @ 4Ω Class-D Amplifier

External I/O Ports	
Display	1 × HDMI 2.1, 1 × DisplayPort 2.1
USB	2 × USB 3.2 Gen2 Type-A 1 × USB 3.2 Gen1 Type-A (+5VSB/0.9A) 1 × USB Type-C 5V@3A with USB 3.2 Gen2x2 & DisplayPort signal
LAN	2 × RJ45
Power Input	1 × DC-in
Internal I/O Ports	
Display	1 × LVDS Header, 1 × eDP Header (Optional)
USB	4 × USB 2.0 Headers
COM/Serial Port	2 × RS-232/422/485 Headers, 2 × RS-232 Headers
Audio	2 × 6-pin headers for Line-in, Line-out, Mic-in 1 × 4-pin speaker header
GPIO	1 × 8-bits GPIO Header
Mechanical, Power, and Environment	
Power	+12V ~ +24V Wide Range DC
Operating Temp	Standard temperature CPU: 0°C ~ 60°C (32°F ~ 140°F) Extended temperature CPU: -40°C ~ 70°C (-40°F ~ 158°F) (with 0.5 m/s airflow)
Storage Temp	-40°C ~ +75°C (-40°F ~ 167°F)
OP Humidity	95% Relative Humidity @ 40°C, non-condensing
Cooling Design	Passive Heatsink for 15W Processors
Regulatory Compliance	FCC Class B/CE RoHS Compliant
Form Factor	3.5" Single Board Computer (SBC)
Dimensions	5.7" x 4" (146mm x 102mm)
Weight	0.88lbs (0.4kg)

SPECIFICATIONS / ADDITIONAL PRODUCT PHOTOS



ORDERING INFORMATION

Model Name	Description
ECM-PTL-series	Please contact BCMSales@bcmcom.com



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