



EPC-PTL

Compact Embedded System built with the Intel® Core™ Ultra Series 3 Processor Platform



Features

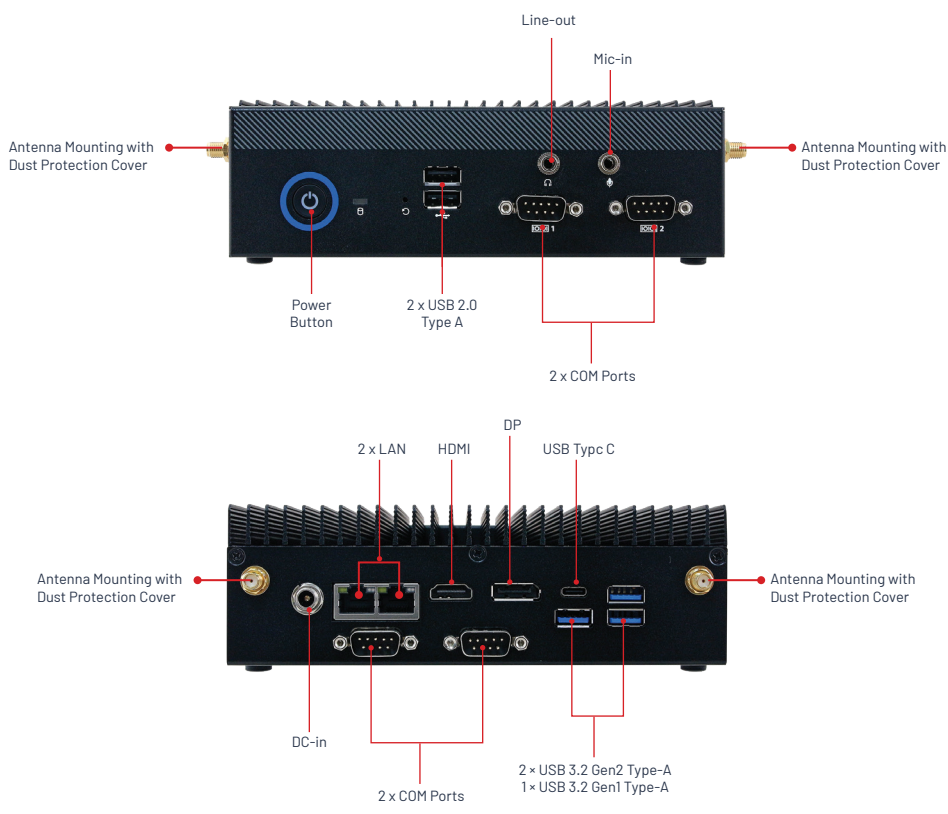
- Intel® Core™ Ultra Series 3 Processor onboard, Panther Lake platform
- 1 x DDR5 6400MHz (H404) SODIMM socket, 7200MHz (H484) SODIMM socket supports up to 48GB
- 2 x Intel® Ethernet Controller I226-IT (2.5GbE)
- TPM 2.0
- 1 x M.2 M-Key 2280, 1 x M.2 B-Key 3042/3052/2242, 1 x M.2E-Key 2230
- Supports 3 independent displays: 1 x DP 2.1, 1 x HDMI 2.1b, 1 x USB Type C support DP
- Rich external I/O
- Fanless Operation (CPU TDP 15W): -20°C to 60°C (with wide-temp SSD)
- DC in +12V ~ +24V, lockable DC Jack
- Supports Windows 11, Linux

SPECIFICATIONS

System	
Motherboard	ECM-PTL P3.5" SBC
Processor	Intel® Core™ Ultra Series 3 processors, 25W (Panther Lake) Intel® Core™ Ultra 7-365, 8C8T, 12M Cache, 1.8 GHz (4.8GHz) Intel® Core™ Ultra 7-355, 8C8T, 12M Cache, 1.7 GHz (4.7GHz) Intel® Core™ Ultra 5-335, 8C8T, 12M Cache, 1.6 GHz (4.6GHz) Intel® Core™ Ultra 5-322, 6C6T, 12M Cache, 1.9 GHz (4.4GHz)
System Memory	1 x 262-pin DDR5 6400MHz (H404) SODIMM socket, 7200MHz (H484) SODIMM socket supports up to 48GB
BIOS	AMI BIOS, 256Mbit SPI Flash ROM
Ethernet	2 x Intel® Ethernet Controller I226-IT (2.5GbE)
Audio Codec	HD Audio
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step
H/W Status Monitor	CPU & system temperature monitoring Voltages monitoring
TPM	TPM 2.0
Expansion	1 x M.2 M-Key 2280 (with 1 x PCIe Gen5) NVME 1 x M.2 B-Key 3042/3052/2242 (with 1 x PCIe x1, USB 3.2 Gen2, USB 2.0 with 1 x SIM card slot support WWAN+GNSS) (3.3V & 3.8V) 1 x M.2E-Key 2230 support WiFi module and CNVi (1 x PCIe x1 & USB 2.0 Signal)
Storage	Via M.2: 1 x M.2 M-Key 2280 NVMe 1 x M.2 B-Key 3042/3052/2242
Supported OS	Windows 11, Linux
External I/O - Left	
Antenna	1 x Antenna Mounting with Dust Protection Cover
External I/O - Right	
Antenna	1 x Antenna Mounting with Dust Protection Cover

External I/O - Front	
USB	2 x USB 2.0 type A
COM Port	2 x DB-9 RS-232 or 1 x DB-9 RS-232+1 x DB-9 8bit DIO
Audio	1 x Mic-in, 1 x Line-out
Power Button	1 x Power Button
Reset Button	1 x Reset Button
LED Indicator	1 x Power LED, 1 x HDD LED
External I/O - Rear	
Display	1 x DP 2.1 1 x HDMI 2.1b
USB Porth	4 x USB 2.0 by pin header 3 x USB 3.2 Gen 2 1 x USB Type-C 5V 3A at I/O (with USB 3.2 Gen 2x1 & DP 1.4a signal display output)
LAN	2 x RJ-45
Antenna	2 x Antenna Mounting Holes with Dust Protection Covers
Mechanical, Power, and Environment	
Operating Temp	Fanless Operation (CPU TDP 15W): -20°C to 60°C (with wide-temp SSD)
Storage Temp	-40°C ~ 85°C (-40°F ~ 185°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Construction	Aluminum + Metal
Mounting Method	Wall/VESA/DIN Rail Mount
Dimension	6.97" x 4.94" x 2.24" (177 x 126 x 57mm)
Certification Information	CE, FCC Class A, RoHS, UKCA

SPECIFICATIONS / ADDITIONAL PRODUCT PHOTOS



ORDERING INFORMATION

Model Name	Description
EPC-PTL	Coming soon, please contact sales team at BCMSales@bcmcom.com

BCM Advanced Research

Tailored Hardware Solutions, Delivered with Excellence:
Your Go-To Partner for Industrial Computing Design



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