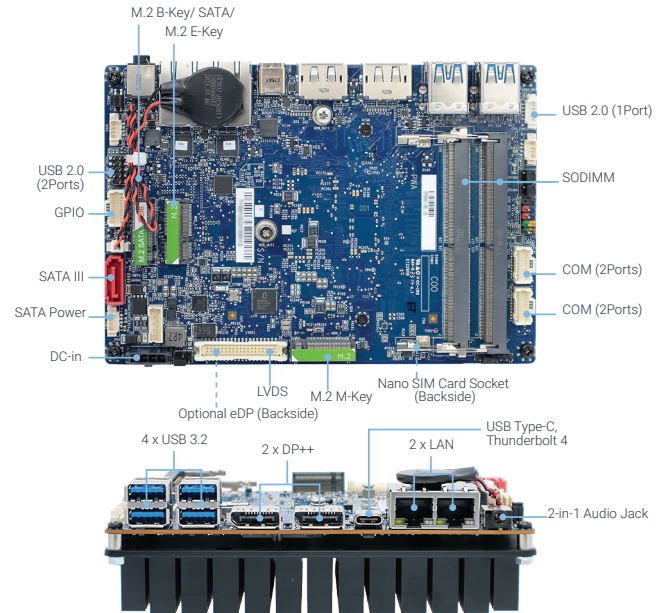


Features

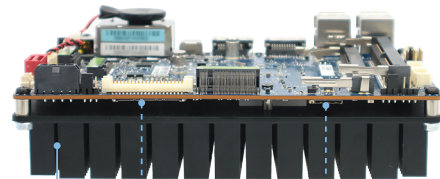
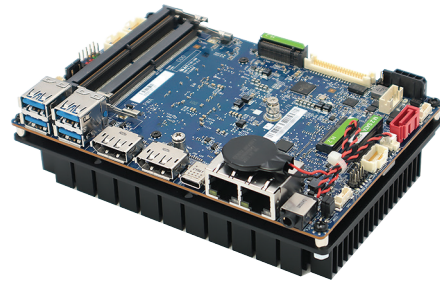
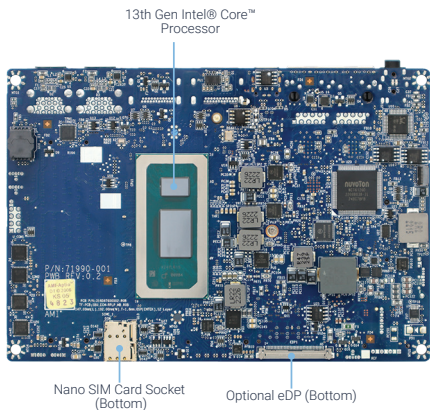
- Intel® Core™ i7/i5/i3 Mobile Processor supports up to 12 Cores, up to 28W
- Intel® Raptor Lake P Mobile Platform
- 2 x DDR5 SODIMM sockets support up to 64GB
- Intel® Iris Xe Graphic/ Intel® UHD Graphics (CPU Dependent)
- 2 x DP++, LVDS
- Supports 3 Independent Displays
- Integrated USB Type C Thunderbolt 4
- 2 x Intel® I226-LM Ethernet Controller (2.5 GbE)
- M.2 E-Key CNVi, M.2 M-Key NVMe, M.2 B-Key with Nano SIM Card Slot
- 4 x USB 3.2, 3 x USB 2.0, 4 x COM Ports, 1 x SATA III
- 12V-24V DC-In
- Fanless Operation (15W CPU)



Specifications

System	
CPU	Intel® Raptor Lake P Mobile Platform Intel® Core™ i7-1365UE (15W) Intel® Core™ i5-1345UE (15W) Intel® Core™ i3-1315UE (15W)
System Memory	2 x SODIMM sockets support DDR 5 4800MHz up to 64GB
BIOS	256Mb SPI BIOS
Expansion	1 x M.2 E-Key 2230, CNVi Support (PCIe x1 Channel & USB Signal) 1 x M.2 M-Key 2280 NVMe (Gen4 PCIe x4) 1 x M.2 B-Key 3042 with Nano SIM Card Socket (with PCIe x2, SATA, & USB Signal)
Storage through	1 x M.2 (B-Key) 1 x SATA III
TPM	TPM 2.0
Supported OS	Win 10 Win 11 64-bit Linux Ubuntu
Display	
Chipset	Intel® Iris Xe Graphic: select Intel® Core™ i7 and i5 Processors Intel® UHD Graphics: select Intel® Core™ i3 Processor
Interface	2 x DisplayPort 1.4a @60Hz (4096x2160) 18/24 bits Dual Channel LVDS, eDP optional
Multi-Display	Support 3 Independent Displays
Audio	
Chipset	Realtek HD Audio
Amplifier	3W Per Channel Amplifier

Ethernet	
Controller	2 x Intel® I226-LM Ethernet Controllers
Interface	2 x 10/100/1000/2.5G Base-Tx GbE Compatible
Connector	2 x RJ45
External I/O	
Display	2 x DisplayPort++
USB	4 x USB 3.2
Thunderbolt	1 x USB Type C Thunderbolt 4 Connector
LAN	2 x RJ45
Audio	Audio Jack
Internal I/O	
Display	1 x LVDS Header 1 x eDP Header (Optional)
USB	2 x USB 2.0 Headers for 3 x USB 2.0 Ports
COM	2 x COM Ports Header for 4 x COM Ports
SATA	1 x SATA III, 1 x 4-pin SATA Power Connector
GPIO	1 x 8-bits GPIO Header
DC-in	1 x 4-pin DC-in Connector



Passive Heatsink for 15W Processors
Heatsink with Fan for 28W Processors

Mechanical & Environment

Power Requirement	12V-24V Wide Range DC-In
Power Type	Single power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
Operating Temp.	0°C ~ 60°C (32°F ~ 140°F)
Storage Temp.	-10° C ~ 80° C (-14°F ~ 176°F)
Op. Humidity	5% to 85% non-condensing
Cooling Design	Passive Heatsink for 15W Processors Heatsink with Fan for 28W Processors
Certification	FCC Class B/CE/UL/CB RoHS Compliant
Form Factor	3.5" Single Board Computer (SBC)
Dimensions	5.7" x 4" (146mm x 102mm)
Weight	0.44lbs (0.2kg)

Ordering Info

ECM-RPLP-65U	Intel® Core™ i7-1365UE (15W) Processor Onboard
ECM-RPLP-45U	Intel® Core™ i5-1345UE (15W) Processor Onboard
ECM-RPLP-15U	Intel® Core™ i3-1315UE (15W) Processor Onboard
Included	1 x SATA Power Cable

* All product specifications and images are subject to change without notice. Last update: 11/28/2023



BCM Advanced Research
11 Chrysler, Irvine, CA 92618 USA
An Industry Leader in Industrial Motherboards
& Embedded Computing

www.bcmcom.com
BCMSales@bcmcom.com
(949) 470-1888