

## Features

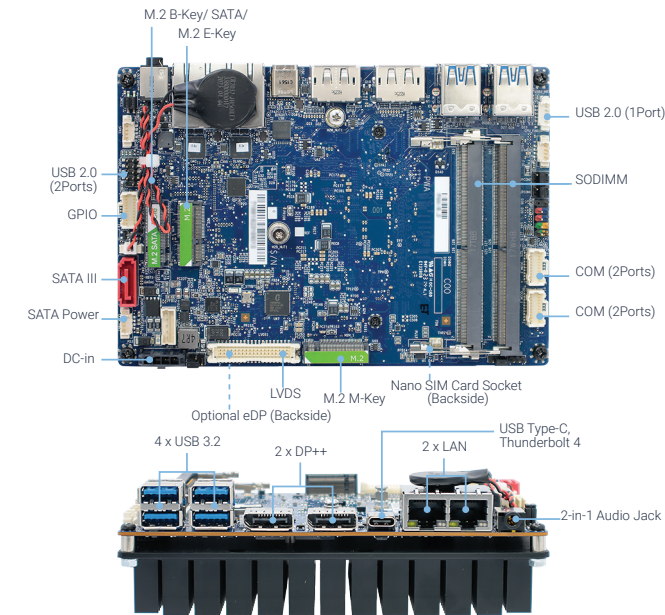
- Intel® Core™ i7/i5/i3 Mobile Processor supports up to 12 Cores, up to 28W
- Intel® Raptor Lake P Mobile Platform
- 2 x DDR5 SODIMM sockets support up to 64GB
- Intel® Iris Xe Graphic/ Intel® UHD Graphics (CPU Dependent)
- 2 x DP++, LVDS
- Supports 3 Independent Displays
- Integrated USB Type C Thunderbolt 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

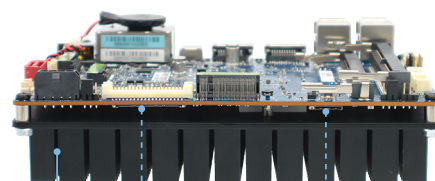
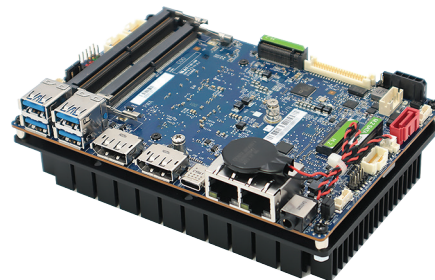
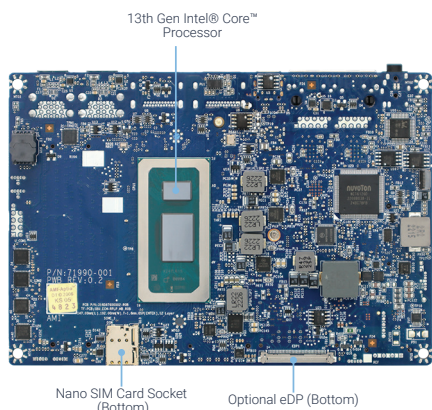
| System          |                                                                                                                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU             | Intel® Raptor Lake P Mobile Platform<br>Intel® Core™ i7-1365UE (15W)<br>Intel® Core™ i5-1335UE (15W)<br>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)<br>1 x M.2 M-Key 2280 NVMe (Gen4 PCIe x4)<br>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)<br>1 x SATA III                                                                                                                                                              |
| TPM             | TPM 2.0                                                                                                                                                                                      |
| Supported OS    | Win 10<br>Win 11 64-bit<br>Linux Ubuntu                                                                                                                                                      |

| Display       |                                                                                                                           |
|---------------|---------------------------------------------------------------------------------------------------------------------------|
| Chipset       | Intel® Iris Xe Graphic: select Intel® Core™ i7 and i5 Processors<br>Intel® UHD Graphics: select Intel® Core™ i3 Processor |
| Interface     | 2 x DisplayPort 1.4a @60Hz (4096x2160)<br>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<br>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<br>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<br>Heatsink with Fan for 28W Processors |
| Certification     | FCC Class B/CE/UL/CB<br>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

|                     |                                                |
|---------------------|------------------------------------------------|
| <b>ECM-RPLP-65U</b> | Intel® Core™ i7-1365UE (15W) Processor Onboard |
| <b>ECM-RPLP-35U</b> | Intel® Core™ i5-1335UE (15W) Processor Onboard |
| <b>ECM-RPLP-15U</b> | Intel® Core™ i3-1315UE (15W) Processor Onboard |
| <b>Included</b>     | 1 x SATA Power Cable                           |

\* All product specifications and images are subject to change without notice. Last update: 03/14/2024



**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

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[BCM Advanced Research:](#)

[ECM-RPLP-65U](#) [ECM-RPLP-35U](#) [ECM-RPLP-15U](#)