

# DRPC-243-MTL

## Fanless DIN-Rail Embedded System



### Features

» Supported CPUs:

Intel® Core™ Ultra Processors (Series 1)(Meteor Lake platform)

» 4 x USB 3.2 Gen2 & 2 x USB 2.0

» Triple independent display (HDMI™ + DP + USB-C)

» 2 x RS-232 & 2 x RS-422/485 (with 2.5KV isolation)

» CE/FCC compliant

### Specifications

| Form factor     |  |
|-----------------|--|
| SBC Form Factor | » Supported CPU:   |
|                 | Intel® Core™ Ultra Processors (Series 1)(Meteor Lake platform)                       |
|                 | » Chipset:   |
|                 | SoC  |
|                 | » System Memory:   |
|                 | 2 x SO-DIMM slot DDR5 5600 MHz (16 GB pre-installed) (up to 96GB)                    |
|                 | » Power:   |
|                 | 3-pin terminal block: 12 ~ 28 VDC  |
| I/O Interface   |  |
| I/O Ports       | » USB:   |
|                 | 4 x USB 3.2 Gen2 Type-A  |
|                 | 2 x USB 2.0 Type-A   |
|                 | » Ethernet:  |
|                 | 1 x 2.5 GbE by Intel® I226LM controller  |
|                 | 2 x 2.5 GbE by Intel® I226-V controller  |
|                 | » Display:   |
|                 | 1 x HDMI™ 1.4b (up to 4K@30Hz)   |
|                 | 1 x DP 1.4b (up to 4K@60Hz)  |
|                 | 1 x USB-C (up to 4K@60Hz Display, supports 40Gbps data transfer, 15W power delivery) |
|                 | » COM Port:  |
|                 | 2 x RS-232 (DB9 with 2.5KV isolation)  |
|                 | 2 x RS-232 (optional)  |
|                 | 2 x RS-422/485 with AFC (DB9 with 2.5KV isolation)                                   |
|                 | » DIO: 1 x 12-bit(6-in, 6-out)(optional)   |
|                 | » TPM:   |
|                 | Intel® PTT (Firmware TPM 2.0)  |
|                 | Optional TPM module via 20-pin header (IEI TPM module P/N:TPM-IN03)                  |
| Expansion Slots |  |
| Expansion Slots | » M.2:   |
|                 | 1 x 2230 A-key (PCIe Gen4 x1/ USB2.0)  |
|                 | 1 x 3042/52 B-key (PCIe Gen4 x1/ USB3.2 Gen2/ USB2.0)                                |
|                 | 1 x On-board SIM card socket (hinge type) for M.2 B key                              |
|                 | 1 x 2280 M-key (PCIe Gen4 x4)  |
|                 | » Backplane:   |
|                 | 1 x PCIe Gen4 x4 (optional)  |
| System          |  |

|                                 |   |
|---------------------------------|---|
| Cooling method / System Fan     | Fanless   |
|                                 | 4-pin external system fan connector                     |
| Drive Bays                      | 1 x 2.5" SATA 6Gb/s SSD bay                             |
| <b>Indicator&amp;Buttons</b>    |   |
| Buttons                         | 1 x Power button  |
|                                 | 1 x 2-pin terminal block for Remote Power Button        |
|                                 | 1 x Reset button  |
|                                 | 1 x AT/ATX switch                                       |
| Indicators                      | 1 x Power LED   |
|                                 | 1 x HDD LED   |
| <b>Physical Characteristics</b> |   |
| Construction                    | Extruded Aluminum alloy                                 |
| <b>Color</b>                    |   |
| Color                           | Black   |
| <b>Dimensions</b>               |   |
| Dimensions                      | 190 (W) x 150 (D) x 81 (H) mm                           |
| <b>Weight</b>                   |   |
| Weight                          | 1.6 / 2.4KG   |
| <b>Environment</b>              |   |
| Operating Temperature           | -20°C ~ 60°C (with SSD)                                 |
| Humidity                        | 10% ~ 95%, non-condensing                               |
| Operating Vibration             | MIL-STD-810H 514.8C-I with SSD                          |
| Operating Shock                 | IEC 60068-2-27 half-sine, 5G, 11ms, 100 shocks with SSD |
| Safety & EMC                    | CE, FCC   |
| <b>OS Compatible</b>            |   |
| OS Compatible                   | Microsoft® Windows 10 / 11, Linux                       |

## Ordering Information

|                       |  |
|-----------------------|--|
| DRPC-243-MTL-U7AD-R10 | Embedded system with Intel® Core™ Ultra 7 155U, pre-installed 1x 16GB DDR5, HDMI/DP/USB4, 3x 2.5GbE LAN, 4x COM, 6x USB, 12~28V DC, RoHS |
| DRPC-243-MTL-U5AD-R10 | Embedded system with Intel® Core™ Ultra 5 125U, pre-installed 1x 16GB DDR5, HDMI/DP/USB4, 3x 2.5GbE LAN, 4x COM, 6x USB, 12~28V DC, RoHS |

## Packing List

|                           |                |
|---------------------------|----------------|
| 1 x DIN-Rail mounting kit | 1 x Screw pack |
| 1 x Terminal block        |                |