

DRPC-240-TGL-U

- Fanless DIN-Rail Embedded System
- Tiger Lake 11th Gen Intel® Core™ Solution (up to 4 cores)

Features

- Supported CPUs:
 - Intel® Celeron® 6305E 1.8 GHz (dual-core, 15W TDP)
 - Intel® Core™ i5-1145G7E 1.5 GHz (up to 4.1 GHz, quad-core, 15W TDP)
 - Intel® Core™ i7-1185G7E 1.8 GHz (up to 4.4 GHz, quad-core, 15W TDP)
- 4 x 2.5GbE ports, supporting PoE (optional)
- Two RS-232 & two RS-422/485 (with 2.5kV isolation)
- CE/FCC compliant



Specifications

| Model Name | | DRPC-240-TGL-U-i7CS-R10 | DRPC-240-TGL-U-i5CS-R10 | DRPC-240-TGL-U-CECS-R10 |
|----------------|-------------------------|--|---|--|
| Chassis | Color | Black | | |
| | Dimensions (WxDxH) (mm) | 81 x 150 x 190 | | |
| | System Fan | Fanless | | |
| | Chassis Construction | Extruded aluminum alloys | | |
| Motherboard | CPU | Intel® Core™ i7-1185G7E 1.8 GHz (up to 4.4 GHz, quad-core, TDP 15W) | Intel® Core™ i5-1145G7E 1.5 GHz (up to 4.1 GHz, quad-core, TDP 15W) | Intel® Celeron® 6305E 1.8 GHz (dual-core, TDP 15W) |
| | Chipset | SoC | | |
| | Memory | 2 x SO-DIMM DDR4 3200 MHz (8 GB pre-installed) (up to 64GB) | | |
| Storage | HDD Bay | 1 x 2.5" SATA 6Gb/s HDD/SSD bay | | |
| I/O Interfaces | USB | 2 x USB 3.2 Gen 2 2 x USB 2.0 | | |
| | Ethernet | 1 x 2.5 GbE by Intel® I225LM/I226LM controller 3 x 2.5 GbE by Intel® I225-V/I226-V controller | | |
| | Port | 2 x RS-422/485 with AFC (DB-9, with 2.5kV isolation) 2 x RS-232 (DB-9, with 2.5kV isolation) | | |
| | Digital I/O | 12-bit Digital I/O (6-in/ 6-out)(optional) | | |
| | Display | 1 x HDMI™ (up to 3840 x 2160@30Hz) 1 x DP++ (up to 4096 x 2304@60Hz) | | |
| | Wireless | 1 x 802.11a/b/g/n/ac (optional) | | |
| | TPM | Support Intel PTT | | |
| | Others | 1 x Power button, 1 x Reset button, 1 x AT/ATX switch, 1 x Power LED (green), 1 x HDD LED (yellow), 4-pin external system fan connector | | |
| Expansions | M.2 | 1 x 2230 A-key (PCIe Gen3 x1/USB 2.0) 1 x 3042/52/80 B-key (PCIe Gen3 x1/USB 3.2 Gen1/USB 2.0) 1 x On-board SIM card socket (hinge type) for M.2 B key | | |
| | Backplane | 1 x PCIe Gen 3 x4 (optional) | | |
| Power | Power Input | Terminal block: 12 ~ 28V DC | | |
| | Power Consumption | 12V @ 6.98A (Intel® Core™ i5-1145G7E with 8GB memory) | | |
| Reliability | Mounting | DIN-Rail, Wall Mount | | |
| | Operating Temperature | -20°C ~ 60°C with air flow (SSD), 10% ~ 95% non-condensing | | |
| | Storage Temperature | -40°C ~ 85°C, 10% ~ 95% non-condensing | | |
| | Operating Shock | Half-sine wave shock 5G, 11ms, 100 shocks per axis (SSD) | | |
| | Operating Vibration | MIL-STD-810G 514.6C-1 (SSD) | | |
| | Weight (Net/Gross) | 2.15/2.5 kg | | |
| | Safety/EMC | CE, FCC, UKCA | | |
| | Watchdog Timer | Programmable 1 ~ 255 sec/min | | |
| OS | Supported OS | Microsoft® Windows 10 / Windows 11, Linux | | |

Built-in 11th Gen Intel® CPU

It is powered by 11th Gen Intel® Core™ i7/i5 or Celeron® processor (FCBGA 1449) to unleash optimal performance and multitasking capability.

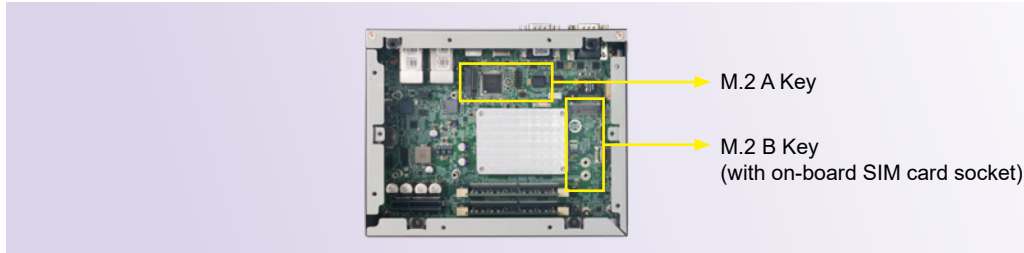
Built-in Intel® I225-LM (V) 2.5GbE Controllers

Four RJ-45 Ethernet ports on the I/O panel through Intel® I225-V GbE controllers provide up to 2.5G network transmission rate, and support optional PoE modules.

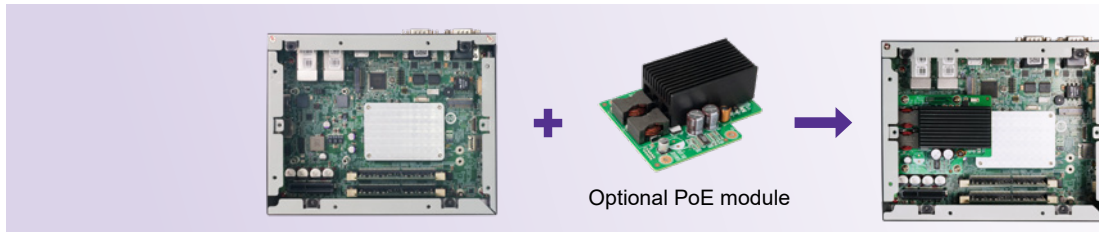
USB 3.2 Gen 2 Ports, up to 10Gb/s

Internal M.2 Expansion

The system motherboard has one M.2 A key slot and one M.2 B key slot. The A key slot supports Wi-Fi or Bluetooth expansion; the B key slot (with on-board SIM card socket) can support 4G/5G modules or accelerator cards.

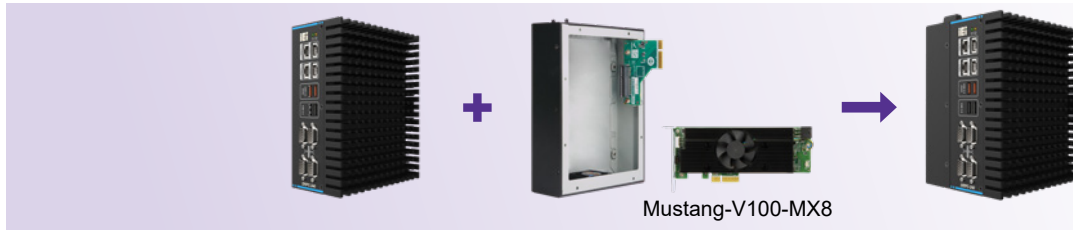


Optional PoE Module



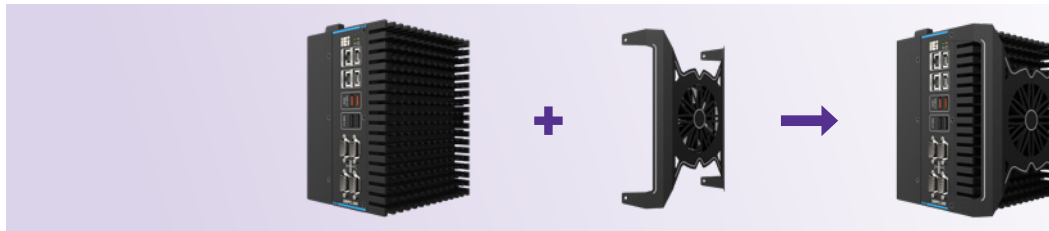
Support Chassis Expansion

The expansion chassis provides one PCIe x4 slot for IEI Mustang accelerator card.

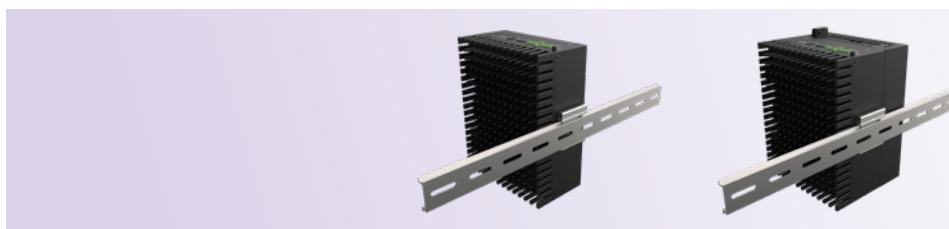


External Fan

Installing an external fan helps to increase system performance in harsh environment.

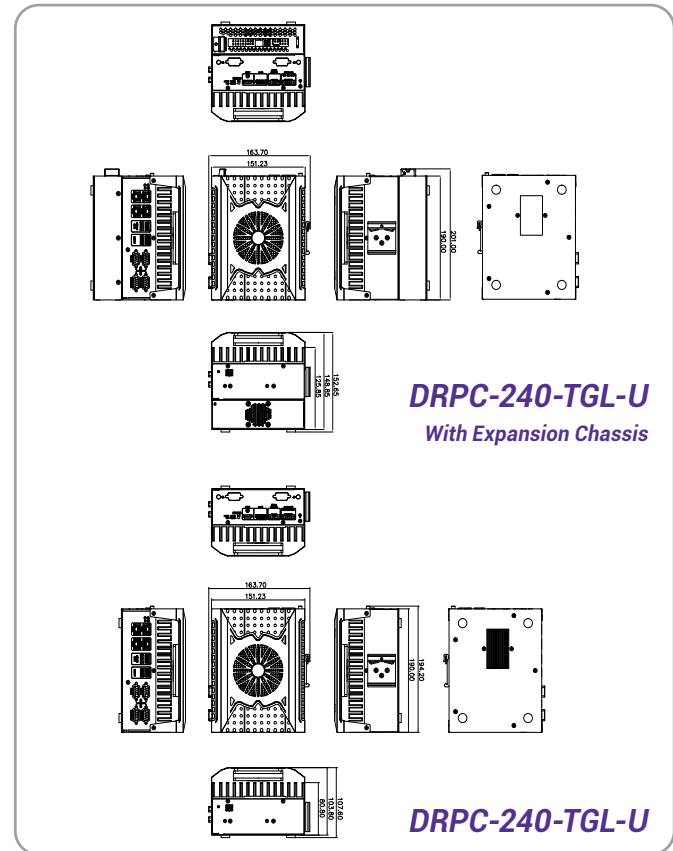
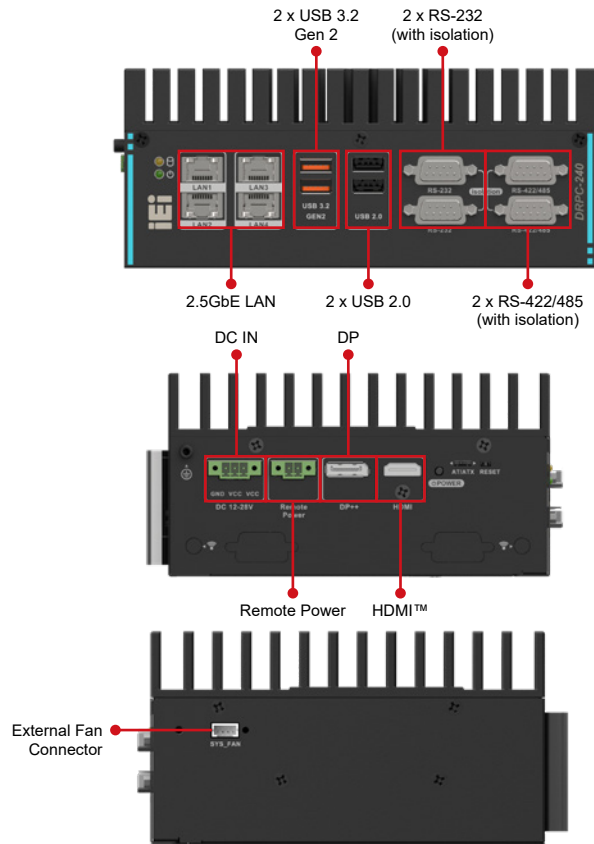


Support DIN-rail Mount



Fully Integrated I/O

Dimensions (Unit: mm)



Ordering Information

| Part No. | Description |
|-------------------------|--|
| DRPC-240-TGL-U-CECS-R10 | Fanless embedded system, Intel® Tiger Lake-U Celeron® 6305E 1.8GHz (dual core, TDP 15W), 8GB DDR4 pre-installed memory, HDMI™/DP++, 4 x 2.5GbE LAN, 4 x COM, DIO, 12~28V DC and RoHS |
| DRPC-240-TGL-U-i5CS-R10 | Fanless embedded system, Intel® Tiger Lake-U i5-1145G7E 1.5 GHz (quad core, TDP 15W), 8GB DDR4 pre-installed memory, HDMI™/DP++, 4 x 2.5GbE LAN, 4 x COM, DIO, 12~28V DC and RoHS |
| DRPC-240-TGL-U-i7CS-R10 | Fanless embedded system, Intel® Tiger Lake-U i7-1185G7E 1.8 GHz (quad core, TDP 15W), 8GB DDR4 pre-installed memory, HDMI™/DP++, 4 x 2.5GbE LAN, 4 x COM, DIO, 12~28V DC and RoHS |

Options

| Item | Part No. | Description |
|---------------------------|----------------------------------|--|
| WIFI Module | EMB-WIFI-KIT0213-R10 | 2T2R M.2 wifi module kit for embedded system, IEEE802.11a/b/g/n/ac/ax, 1 x M.2 AE Key Wireless LAN & Bluetooth 5.2; Intel; AX210. NGWG Module, 2 x RF cable, 2 x Antenna; RoHS |
| POE Module | GPOE-DRPC-240-R10 ¹ | PoE power module for DRPC-240 only |
| External FAN Module | SF-DRPC-240-R10 | External fan for DRPC-24 Series |
| Expansion Chassis | TXC-DRPC-240-1S-R10 | DRPC-240 Series 1 Slot Expansion Chassis with Riser Card |
| DIO Cable | 32031-000600-100-RS | ROUND CABLE;DIO CABLE;;2;150mm;28AWG;300V;(A)D-SUB 15P MALE;(B)DU PONT 2*7P P=2.0 FEMALE |
| Power Cord | 32702-000200-100-RS | POWER CORD; EUROPEAN CODE(VDE); 1800mm; (A)PLUG:SH-005(16A 250V);(B)CONNECTOR:C13(SH-006, 10A250V) |
| DC Power Conversion Cable | 32102-054800-100-RS | WIRE CABLE;POWER CABLE;;2;200mm;18AWG;300V;(A)POWER DIN 4P FEMALE;(B)TERMINAL BLOCK-3P P=3.5 |
| Power Adapter | 63040-010180-200-RS | Adapter Power;FSP;FSP180-ABAN3;9NA1804008;Active PFC;Vin:90~264VAC;180W;Dim:75.6*151.3*25.4mm;Plug=6.5mm;Cable=1500mm;Erp(NO LOAD 0.5W);Vout:19VDC;Din 4Pin/lock;CCL;RoHS |
| Power Adapter | 63040-010120-300-RS ² | Adapter Power;FSP;FSP120-AHAN3;9NA1206708;Active PFC;Vin:90~264VAC;120W;Dim:75.6*151.3*25.4mm;Plug=6.5mm;Cable=1500mm;Erp(NO LOAD 0.15W);Vout:12VDC;Din 4Pin/lock;CCL;RoHS |
| Wall Mount Kit | 41020-0578C2-00-HF ³ | WALL MOUNT BRACKET; NCT processing formation; DRPC-24x Series |
| OS | DRPC-240-TGL-U-W10E64-H-R10 | OS Image with Windows® 10 Enterprise High End 64-bit 2019 for DRPC-240-TGL-U i7 Series, with DVD-ROM, RoHS |
| OS | DRPC-240-TGL-U-W10E64-V-R10 | OS Image with Windows® 10 Enterprise Value 64-bit 2019 for DRPC-240-TGL-U Celeron/i3/i5 Series, with DVD-ROM, RoHS |

¹ For the PoE module, it is suggested to use a 180W (or above) power adapter (63040-010180-200-RS 180W is recommended).

² The power adapter must be used with the 32102-054800-100-RS power cable.

³ Wall Mount Bracket quantity required 2.

Packing List

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