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	DRPC-240-TGL-U-i5CS	DRPC-240-TGL-U-CECS
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® I226LM controller 3 x 2.5 GbE by Intel® 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.

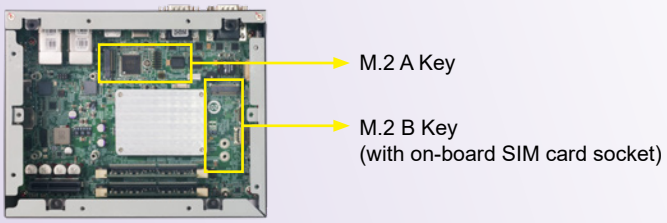
Built-in Intel® I226-LM (V) 2.5GbE Controllers

Four RJ-45 Ethernet ports on the I/O panel through Intel® I226-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

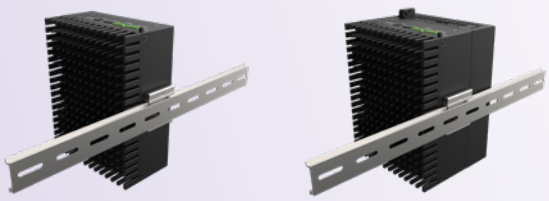
Support Chassis Expansion

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

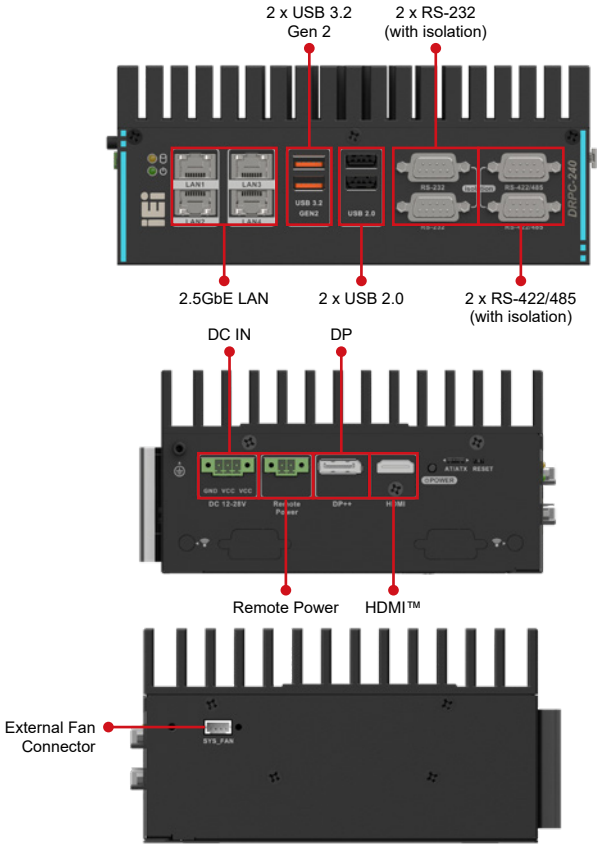
External Fan

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

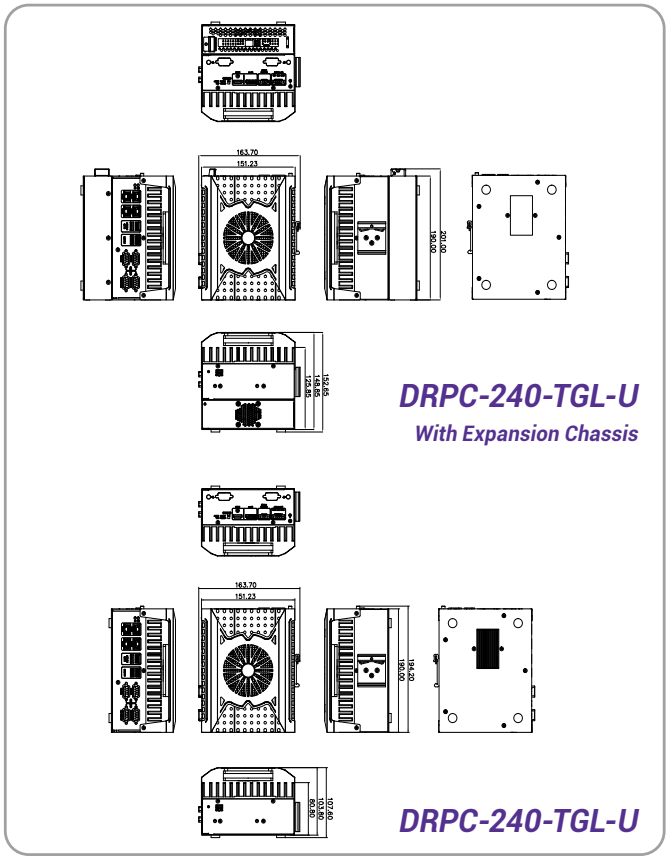
Support DIN-rail Mount



Fully Integrated I/O



Dimensions (Unit: mm)



Ordering Information

Part No.	Description
DRPC-240-TGL-U-CECS-R11	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-R11	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-R11	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-KIT02I3-R10	2T2R M.2 wifi module kit for embedded system, IEEEE802.11a/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