

# DRPC-240-TGL-U

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



## Features

- Supported CPUs:
  - Intel® Celeron® 6305 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-CCS-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® 6305 1.8 GHz (dual-core, TDP 15W)
	Chipset	SoC		
	BIOS	BIOS		
	Memory	2 x SO-DIMM DDR4 3200 MHz (8 GB pre-installed) (up to 64GB) Support in-band ECC		
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	4 x RJ-45: 1 x 2.5GbE by Intel® I225LM 3 x 2.5GbE by Intel® I225V (colay I225LM) * Support optional PoE af module		
	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)		
	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 x1/USB 2.0) 1 x 3042/52/80 B-key (PCIe x2/USB 3.0/USB 2.0)		
	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		
	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		
Watchdog Timer	Programmable 1 ~ 255 sec/min			
OS	Supported OS	Microsoft® Windows 10 / Windows 11, Linux		

## Built-in 11<sup>th</sup> Gen Intel® CPU

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

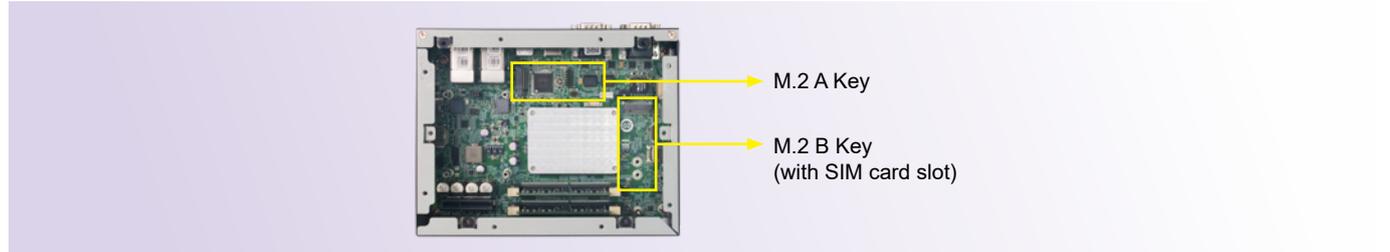
## Built-in Intel® I225-LM (V) 2.5GbE Controllers

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 SIM card holder) can support 4G modules or accelerator cards.

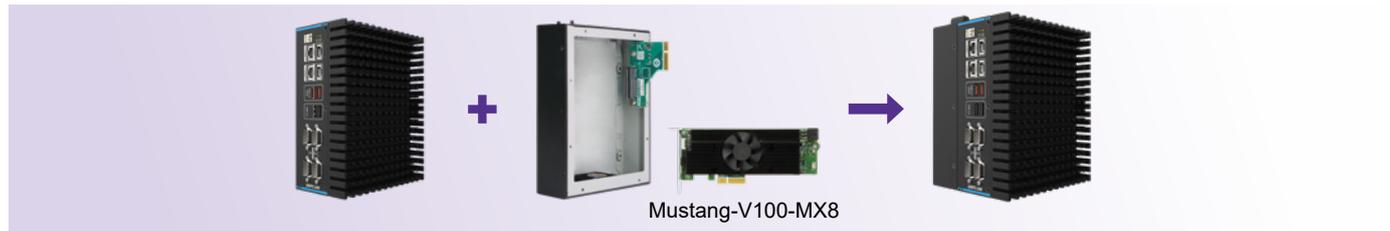


## Optional PoE Module



## Support Chassis Expansion

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

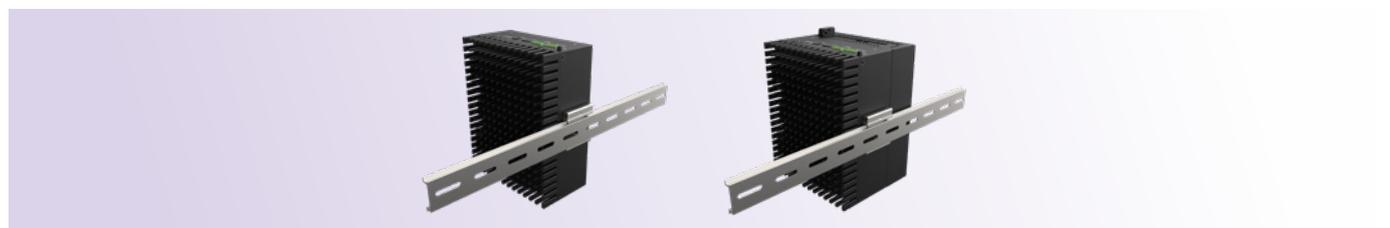


## External Fan

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

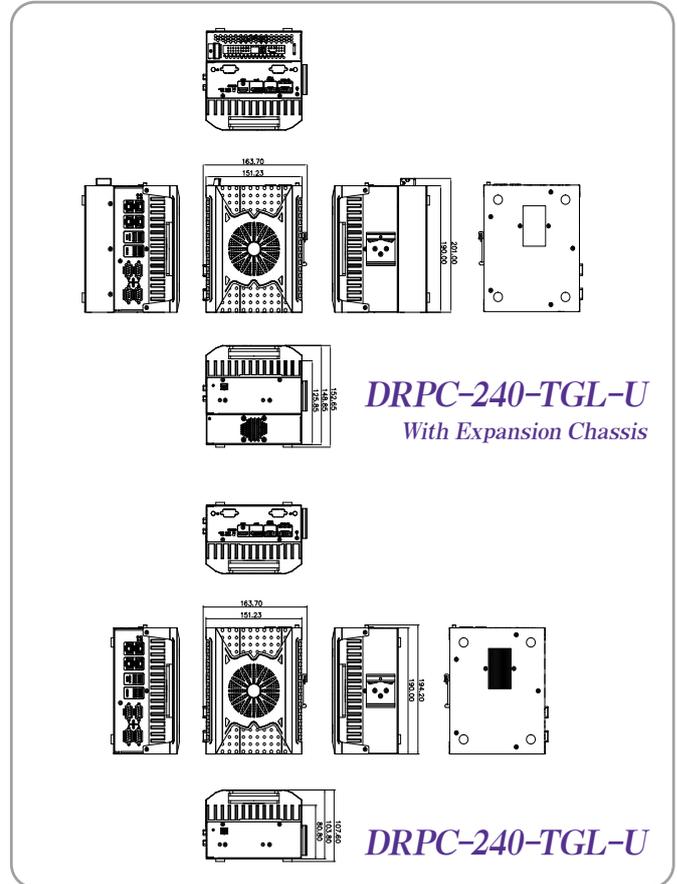
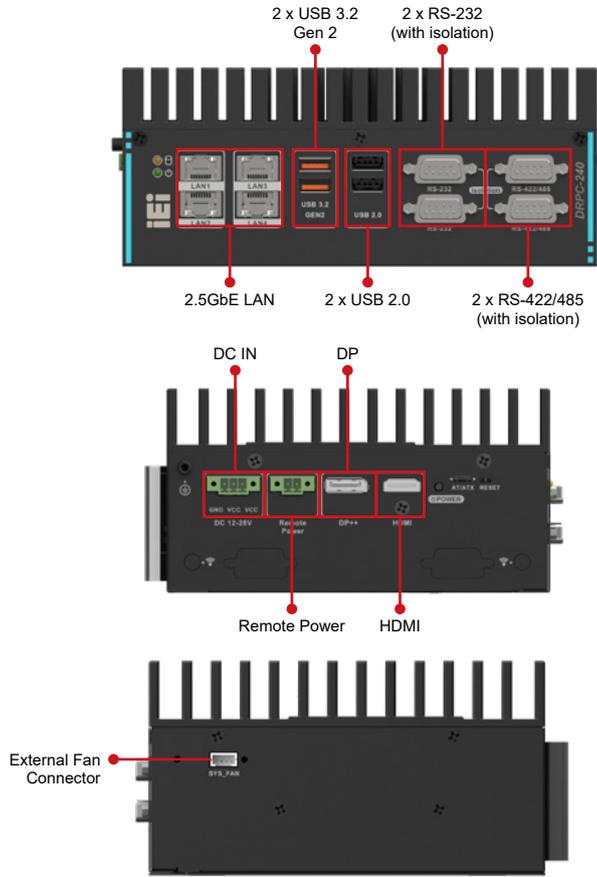


## Support DIN-rail Mount



Fully Integrated I/O

Dimensions (Unit: mm)



Ordering Information

Part No.	Description
DRPC-240-TGL-U-CCS-R10	Fanless embedded system, Intel® Tiger Lake-U Celeron® 6305 1.8 GHz (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

Part No.	Description
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
GPOE-DRPC-240-R10 <sup>1</sup>	PoE power module for DRPC-240 only
SF-DRPC-240-R10	External fan for DRPC-240 only
TXC-DRPC-240-1S-R10	DRPC-240 Series 1 Slot Expansion Chassis with Riser Card
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; Wins Precision; C24210815-0; RoHS
32205-003800-300-RS	FLAT CABLE; RS-232/422/485; RS-422/485 CABLE;; 2; 200MM; 28AWG; (A) D-SUB 9PIN MALE; (B) JST PHR-4 P=2.0; ONE PCS PKG W/ LABEL; Wins Precision; RoHS
32702-000400-200-RS	POWER CORD; EUROPEAN CODE (VDE); 2; 1800MM;; (A) PLUG: SH-025 (16A/250V); (B) CONNECTOR: C5 (SM112, 2.5A/250V); Self-Man; CCL; RoHS
41019-2312C2-00-HF	HOLDER; FAN FILTER BRACKET; NCT processing formation; DRPC-240-ULT6; PAINTING; PMS Black C; 41019-2312XX;; NCT(N); SECC; VER:00; CCL; Halogen Free
32102-054800-100-RS	WIRE CABLE; POWER CABLE;; 2; 200mm; 18AWG; 300V; (A) POWER DIN 4P FEMALE; (B) TERMINAL BLOCK-3P P=3.5; Wins Precision; C24210816-0; RoHS
63040-010230-000-RS	Adapter Power; FSP; FSP220-ABAN2; 9NA2200401; Active PFC; Vin: 90~264VAC; 220W; Cable=1500mm; Erp(NO LOAD 0.5W); Vout: 19VDC; Din 4Pin; CCL; RoHS
63040-010120-300-RS <sup>2</sup>	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
Mustang-V100-MX8-R11 <sup>3</sup>	Computing Accelerator Card with 8 x Movidius Myriad X MA2485 VPU, PCIe Gen 2 x4 interface, RoHS

<sup>1</sup> For the PoE module, it is suggested to use a 180W (or above) power adapter (63040-010230-000-RS 220W is recommended).  
<sup>2</sup> The power adapter must be used with the 32102-054800-100-RS power cable.  
<sup>3</sup> For IEI Mustang accelerator card, it is suggested to use a 180W (or above) power adapter (63040-010230-000-RS 220W is recommended), and the Mustang can only be used in the dual-layer model.

Packing List

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