

# 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® 6305/6305E 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-CCS-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® 6305 1.8 GHz (dual-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	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)(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 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.

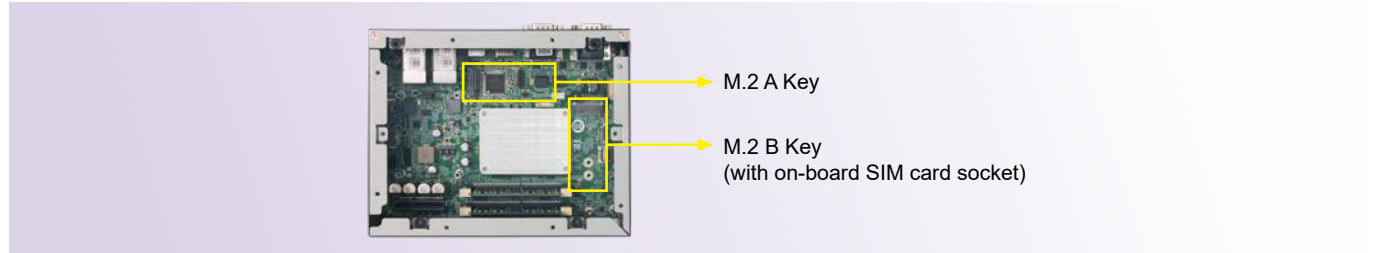
### **Built-in Intel® I225-LM (V) 2.5GbE Controllers**

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 on-board SIM card socket) can support 4G/5G modules or accelerator cards.

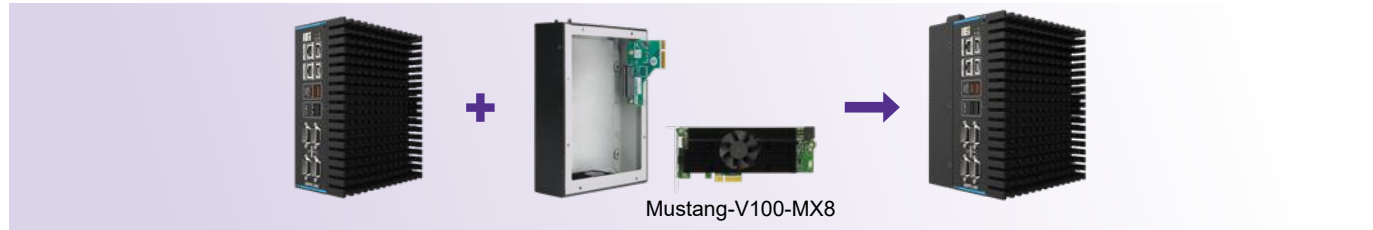


### **Optional PoE Module**



### **Support Chassis Expansion**

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

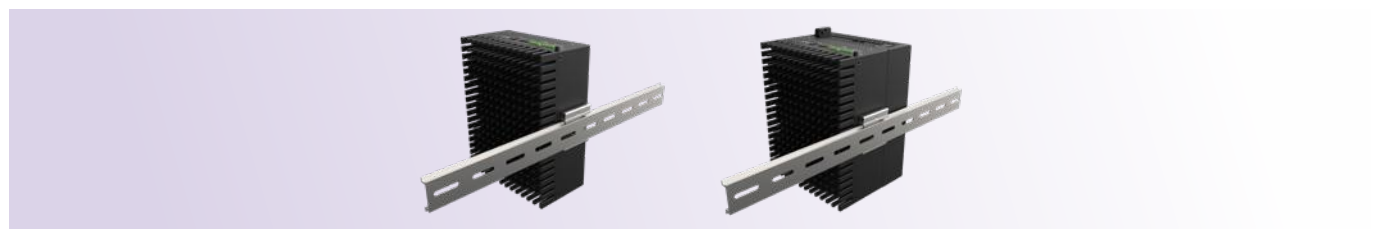


### **External Fan**

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

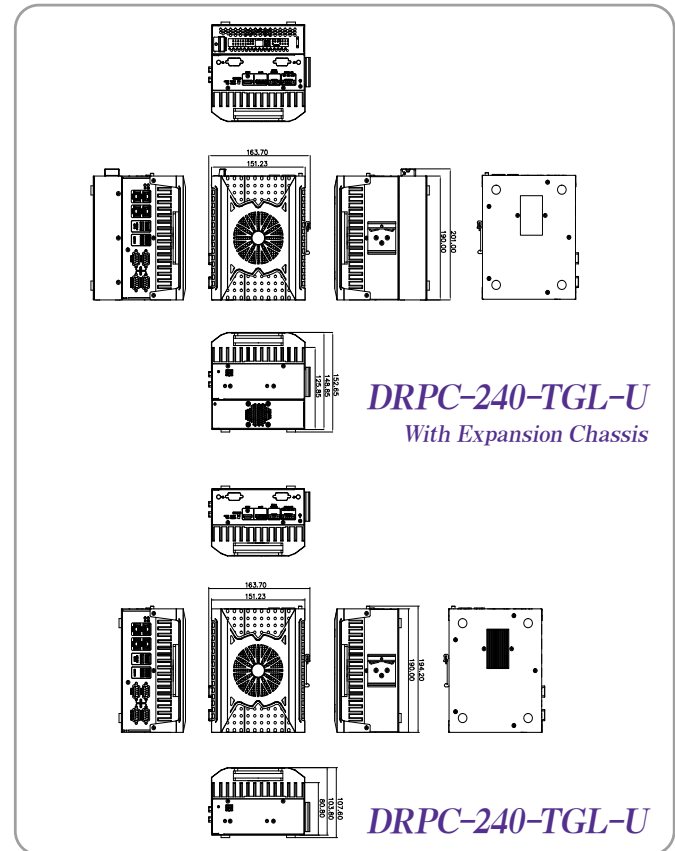
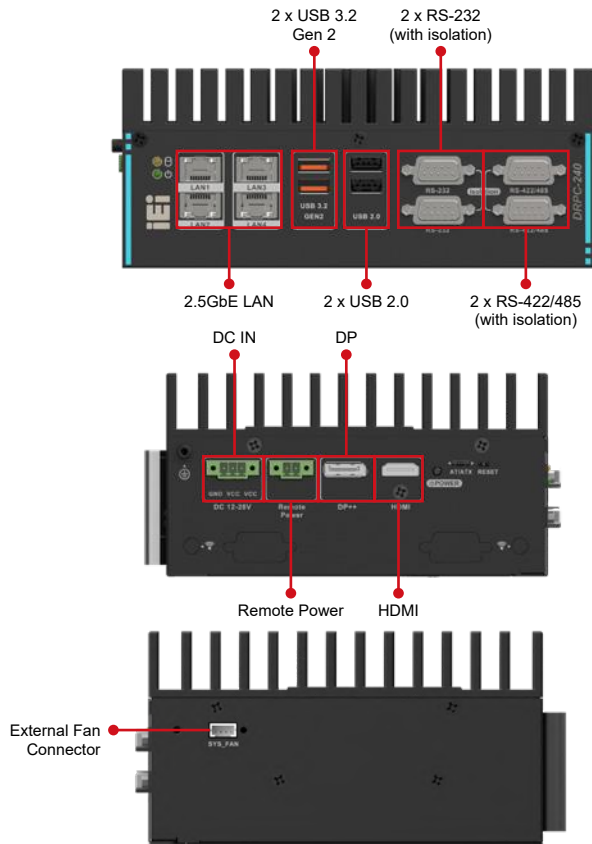


### **Support DIN-rail Mount**



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-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
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
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

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 <sup>1</sup>	PoE power module for DRPC-240 only
External FAN Module	SF-DRPC-240-R10	External fan for DRPC-240 only
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 <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
Accelerator Card	Mustang-V100-MX8-R11 <sup>3</sup>	Computing Accelerator Card with 8 x Movidius Myriad X MA2485 VPU, PCIe Gen 2 x4 interface, RoHS
Wall Mount Kit	41020-0578C2-00-HF <sup>4</sup>	WALL MOUNT BRACKET; NCT processing formation; DRPC-24x Series

<sup>1</sup> For the PoE module, it is suggested to use a 180W (or above) power adapter (63040-010180-200-RS 180W 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 (63040-010180-200-RS 180W is recommended), and the Mustang can only be used in the dual-layer model.

<sup>4</sup> Wall Mount Bracket quantity required 2.

Packing List

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