

DRPC-W-TGL

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



Features

- Supported 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® Core™ i3-1115G4E 2.2 GHz (up to 3.9 GHz, dual-core, TDP 15W)
 - Intel® Celeron® 6305/6305E 1.8 GHz (dual-core, TDP 15W)
- Support three independent display
- 3 x 2.5GbE ports
- 1 x M.2 A Key
- 1 x M.2 B Key (with SIM card slot)



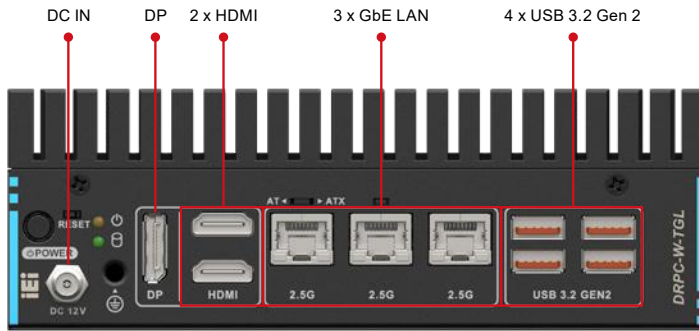
External fan module

Specifications

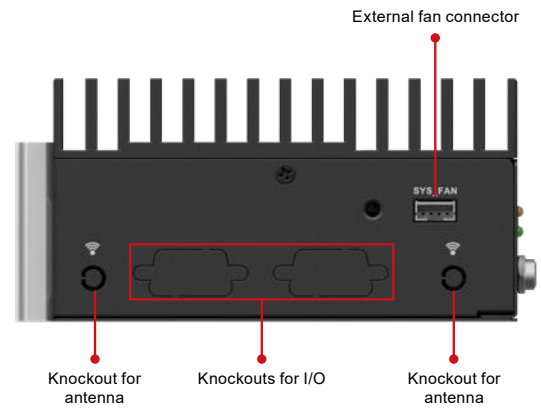
| Model Name | | DRPC-W-TGL-U-i7C-R10 | DRPC-W-TGL-U-i5C-R10 | DRPC-W-TGL-U-i3C-R10 | DRPC-W-TGL-U-C(E)C-R10 |
|---------------------|-------------------------|---|---|---|---|
| Chassis | Color | Black | | | |
| | Dimensions (WxDxH) (mm) | 176 x 116 x 67.8 | | | |
| | System Fan | Fanless | | | |
| | 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® Core™ i3-1115G4E 2.2 GHz (up to 3.9 GHz, dual-core, TDP 15W) | Intel® Celeron® 6305/6305E 1.8 GHz (dual-core, TDP 15W) |
| | Chipset | SoC | | | |
| | Memory | 1x DDR4 3200MHz SO-DIMM (pre-installed 8GB) (up to 32GB) | | | |
| Storage | HDD Bay | 1 x 2.5" SATA 6Gb/s HDD bay | | | |
| IO Interfaces | USB | 4 x USB 3.2 | | | |
| | LAN | LAN1: Intel® I225V 2.5GbE (I225-LM for i5/i7 SKU) LAN2/3: Intel® I225V 2.5GbE | | | |
| | Display | 1 x DP, 2 x HDMI | | | |
| | Others | 1 x Power button, 1 x Reset button, 1 x Power LED, 1 x HDD LED, 1 x System fan connector, 1 x AT/ATX Switch | | | |
| Internal Expansions | PCIe Mini | N/A | | | |
| | M.2 | 1 x 2230 M.2 A Key (PCIe Gen3 x1 & USB2.0) 1 x 3042/3052 M.2 B Key (PCIe Gen3 x2) 1 x On-board SIM card socket (push-push type) for M.2 B key | | | |
| Power | Power Input | 12V DC | | | |
| | Power Consumption | 12V@4.1A (Intel i5-1145G7E With 8GB DDR4 Memory) | | | |
| Reliability | Mounting | DIN-Rail | | | |
| | Operating Temperature | -20°C ~ 60°C with airflow, 10% ~ 95% non-condensing | | | |
| | Storage Temperature | -30°C ~ 85°C, 10% ~ 95% non-condensing | | | |
| | Operating Shock | Half-sine wave shock 5G, 11ms, 100 shocks per axis | | | |
| | Operating Vibration | 10-500 Hz, 1.04 Grms, random, 1 hr/axis | | | |
| | Weight (Net/Gross) | 0.98/1.2 Kg | | | |
| | Safety/EMC | CE, FCC, UKCA | | | |
| | Watchdog Timer | Programmable 1 ~ 255 sec/min | | | |
| OS | Supported OS | Microsoft® Windows 10 / 11, Linux | | | |

Fully Integrated I/O

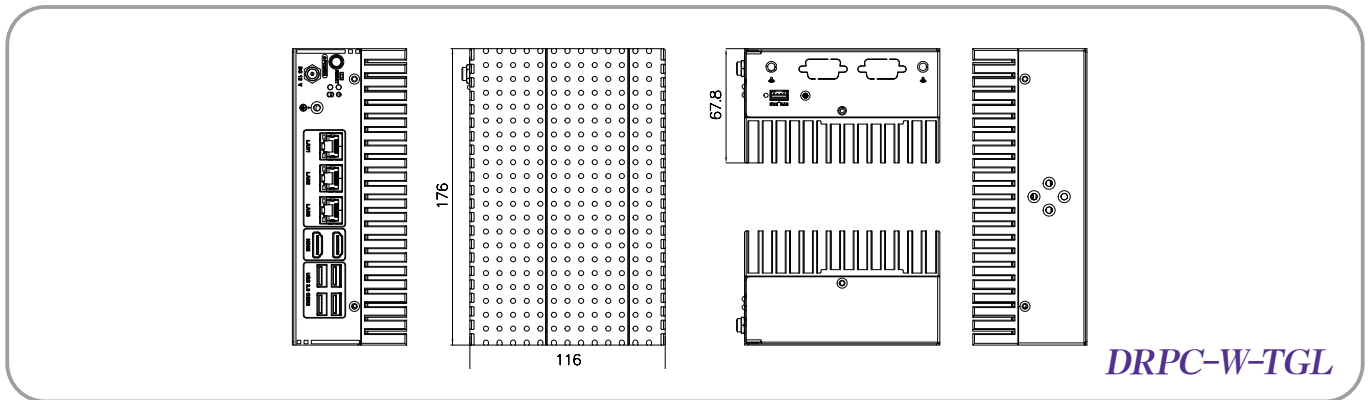
Front View



Top View



Dimensions (Unit: mm)



Ordering Information

| Part No. | Description |
|---------------------------|---|
| DRPC-W-TGL-U-CC-R10 | Fanless System with Intel® Tiger Lake-U Celeron® 6305 1.8GHz(dual-core, TDP 15W), 3 x 2.5GbE Lan, 2 x HDMI, 1 x DP, 8GB memory pre-installed, 12V DC, RoHS |
| DRPC-W-TGL-U-CEC-R10 | Fanless System with Intel® Tiger Lake-U Celeron® 6305E 1.8GHz(dual-core, TDP 15W), 3 x 2.5GbE Lan, 2 x HDMI, 1 x DP, 8GB memory pre-installed, 12V DC, RoHS |
| DRPC-W-TGL-U-i3C-R10 | Fanless System with Intel® Tiger Lake-U Core™ i3-1115G4E 2.2GHz(up to 3.9GHz, dual-core, TDP 15W), 3 x 2.5GbE Lan, 2 x HDMI, 1 x DP, 8GB memory pre-installed, 12V DC, RoHS |
| DRPC-W-TGL-U-i5C-R10 | Fanless System with Intel® Tiger Lake-U Core™ i5-1145G7E 1.5GHz(up to 4.1GHz, quad-core, TDP 15W), 3 x 2.5GbE Lan, 2 x HDMI, 1 x DP, 8GB memory pre-installed, 12V DC, RoHS |
| DRPC-W-TGL-U-i7C-R10 | Fanless System with Intel® Tiger Lake-U Core™ i7-1185G7E 1.8GHz(up to 4.4GHz, quad-core, TDP 15W), 3 x 2.5GbE Lan, 2 x HDMI, 1 x DP, 8GB memory pre-installed, 12V DC, RoHS |
| DRPC-W-TGL-W10IoT21-H-R10 | OS Image with Windows® 10 Enterprise High End 64-bit 2021 LTSC for DRPC-W-TGL i7 Series, with DVD-ROM, RoHS |
| DRPC-W-TGL-W10IoT21-V-R10 | OS Image with Windows® 10 Enterprise Value 64-bit 2021 LTSC for DRPC-W-TGL Celeron, i3&i5 Series, with DVD-ROM, RoHS |

Options

| Item | Part No. | Description |
|------------|----------------------|--|
| Adapter | 63040-010060-211-RS | Adapter Power;FSP;FSP060-DHAN3;9NA0608097;;Vin:90~264VAC;60W;Dim:62.0*110*31.5mm;Plug=7.5mm;Cable=1200mm;Erp(NO LOAD 0.21W);Vout:12VDC;Φ2.5/Φ5.5/lock;CCL;RoHS |
| Wifi Kit | 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.NGWWG Module, 2 x RF cable, 2 x Antenna; RoHS |
| Fan Kit | SF-DRPC-W-15-R10 | External fan for DRPC-W Series, For 15W heat dissipation solution |
| COM Cable | 32205-005401-100-RS | RS-232/422/485 CABLE; 250mm;;(A)D-SUB 9P MALE;;(B)DU PONT 2*5P P=2.0 FEMALE |
| GPIO Cable | 32031-000600-100-RS | ROUND CABLE;DIO CABLE;;2;150mm;;28AWG;300V;;(A)D-SUB 15P MALE;;(B)DU PONT 2x7P P=2.0 FEMALE |
| VGA Kit | iDPM-VGA-R10 | eDP to VGA Connector converter board (For IEI Display Module) |

Packing List

| | | |
|---------------------------|----------------|---------------------------------|
| 1 x DIN-rail mounting kit | 1 x Screw pack | 1 x SATA cable with power cable |
|---------------------------|----------------|---------------------------------|