

# Rugged Edge Computer

## RugCon RVS-T2F

**Super Mini & Palm Size : 145 mm x 125 mm x 60 mm**

**Wide DC INPUT 6V~48V**

Equipped with the latest Intel® 12th/13th generation Core i processor (up to i9), 3 2.5GbE Ports / 6 USB / 2 Display / 2 COM / Dual M.2 SSD / 5G / WIFI and vehicle ignition power control / remote power control

Fit Anywhere and Everywhere

-40°C ~ 70°C



RVS-T2F

## Features

- ✓ 3x 2.5GbE
- ✓ 2x Displays (1x HDMI, 1x DP)
- ✓ 1x RS232/422/485, 1x RS232
- ✓ 8x USB ( Support 6x USB3)
- ✓ 1x Mic In/Line Out
- ✓ 2x M.2 2242 M key (SATA III SSD) , support Raid 0/1
- ✓ 1x M.2 2242/3052 B key with SIM slot, support 4G/5G
- ✓ 1x Full Size Mini-PCIe with SIM slot, support 4G/5G
- ✓ 1x M.2 Key E Type 2230 for WIFI/BT/GPS
- ✓ 6~48V Wide DC In Voltage Input,
- ✓ Ignition Power Control
- ✓ Remote Control

## SPECIFICATION

<b>Product Name</b>	RugCon-RVS-T2F
<b>Generation</b>	Intel® 13th/ 12th-Gen Core™ i9 / i7 /i5 (U_15W, P_28W, H_45W)
<b>Memory</b>	Max. Capacity : 64GB DDR5 with 2x SO-DIMM
<b>Display</b>	2x Display 1x Display Port, 4096*2304@60Hz 1x HDMI , 4096*2160@60Hz
<b>LAN</b>	3x 2.5 GbE
<b>CAN</b>	N//A
<b>COM</b>	1x RS232/422/485, 1x RS232
<b>USB</b>	<b>6x USB</b> ( 4x USB 3.2, 2x USB 2.0)
<b>Audio</b>	1x 3.5mm jack for Mic-In and Line-out
<b>DIO</b>	N//A
<b>Storage</b>	2x M.2 2242 M key (SATA III SSD) , Support Raid 0/1 , (1x M.2 2242 share with M.2 3052)
<b>Internal Expansion</b>	1x M.2 2242/3052 M-B key with SIM slot, support 4G/5G 1x Full Size Mini-PCIe with SIM slot, support 4G/5G 1x M.2 Key E Type 2230 for WIFI/BT/GPS
<b>Mechanical</b>	Dimension : 145(W) x 125(D) x60(H) mm , Weight : 1.1 Kg , Mounting : Wall Mount
<b>Temperature</b>	Operating :Standard : -40° C~70 °C ( According to CPU) Storage Temperature : -40°C to 85°C
<b>Humidity</b>	Operating : 0~95%(non-condensing) Storage : 10~90%
<b>Power</b>	<b>1x 3-pin pluggable terminal block for 6-48V DC Input</b> <b>200V/1ms Surge Protection, Reverse-Voltage, Over-Voltage, Under-Voltage, Over-Current Protection</b> <b>1x Power Button</b> <b>1x 4-pin pluggable terminal block for Ignition/Remote</b>
<b>Vibration / Shock</b>	Vibration test according to MIL-STD-810H, Method 514.8, Category 4 Shock test according to MIL-STD-810H, Method 516.8, Procedure I
<b>EMC</b>	CE/FCC Class A , according to EN 55032 & EN 55035 , (E-Mark / EN50155 / EN45545-2 by request)

## Intel CPU Support

It can be equipped with the latest Intel® 14th/13th/12th generation Core™ i9/i7/i5 (15W/28W/45W) processor can reach up to 16-core /22 threads, providing ultra-high computing performance.

**ENBIK**  
RugCon **RVS-T2F**  
Super Small : 145 x 125 x 60 mm

2 x M.2 2242 M key (SATA III SSD)

## M.2 Expansion for 5G/4G/LTE/WIFI / GPS

1x Full Size Mini-PCIe(PCle ,USB2) with SIM slot  
1x M.2 2242/3052 B key(SATAIII,PCIE) with SIM slot  
1x M.2 Key E Type 2230 (PCle, USB2)

Ignition Control / Remote Control

4 xUSB(2x USB3.2 GEN1x1 5Gbps . 2x USB2.0)

3x RJ45 2.5 GbE

2x Display  
1x DP, 1x HDMI

Mic In / Line Out

1x USB3.2  
USB3.2 GEN1x1 5Gbps

2x COM support  
1x RS232/422/485 / 1x RS232

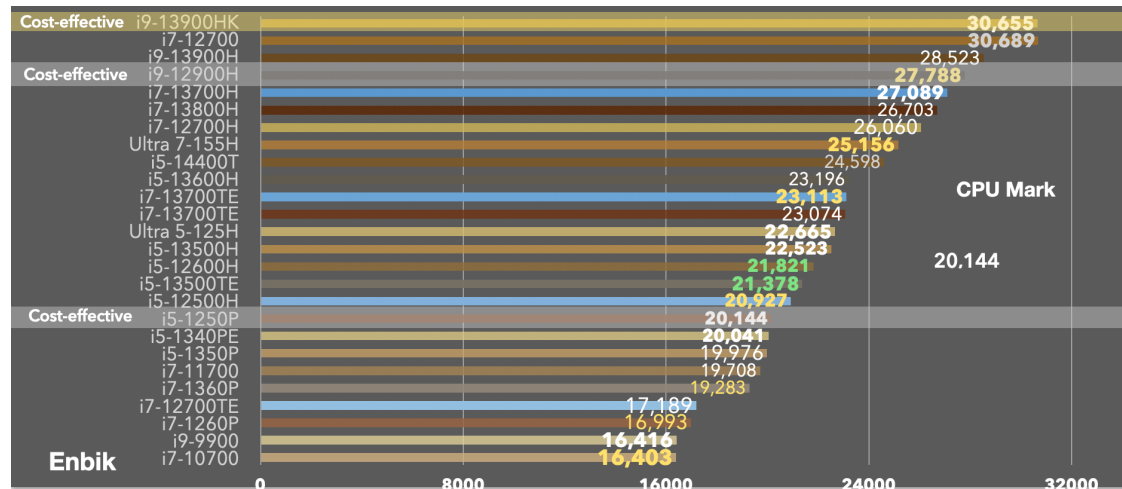
Back

1x USB3.2  
USB3.2 GEN1x1 5Gbps

6~48V DC INPUT / 180W

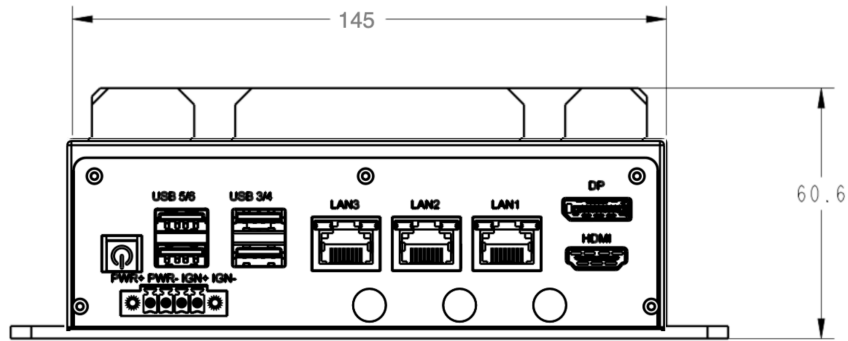
200V/1ms Surge Protection,  
Reverse-Voltage Protection  
Over-Voltage Protection  
Under-Voltage Protection  
Over-Current Protection

## Performance



## Dimension :

**Compact Slim : 145 mm x 125 mm x 60 mm**



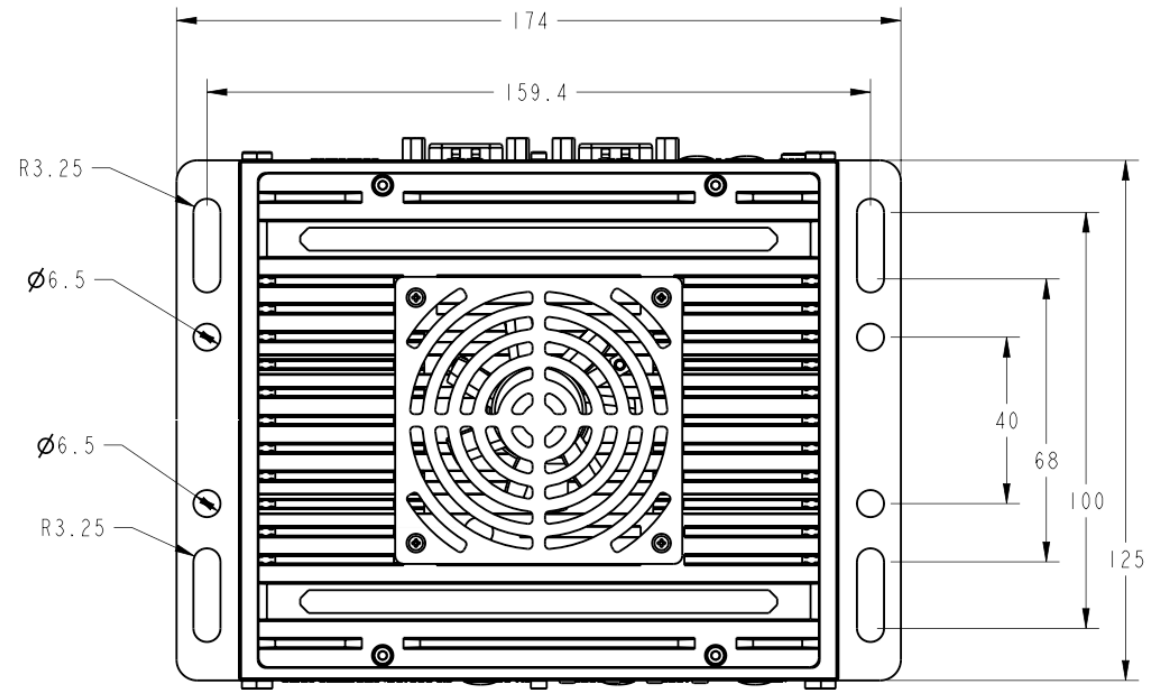
## CPU Support :

### Intel 12th CPU Support List

12th Gen Intel® Core™ mobile processors (formerly Alder Lake-P)	
CPU Module	Description
i9-12900H	Intel® Core™ i9-12900H processor with 6 P-cores and 8 E-cores up to 5.0GHz   24MB Intel® Smart Cache   Intel® Iris® Xe Graphics architecture with 96 EUs   Intel® code name Alder Lake-P (H-Series,45W)
i7-12700H	Intel® Core™ i7-12700H processor with 6 P-cores and 8 E-cores up to 4.7GHz   24MB Intel® Smart Cache   Intel® Iris® Xe Graphics architecture with 96 EUs   Intel® code name Alder Lake-P (H-Series,45W)
i5-12600H	Intel® Core™ i5-12600H processor with 4 P-cores and 8 E-cores up to 4.5GHz   18MB Intel® Smart Cache   Intel® Iris® Xe Graphics architecture with 80 EUs   Intel® code name Alder Lake-P (H-Series,45W)
i7-1260P	Intel® Core™ i7-1260P processor with 4 P-cores and 8 E-cores up to 4.7GHz   18MB Intel® Smart Cache   Intel® Iris® Xe Graphics architecture with 96 EUs   Intel® code name Alder Lake-P (P-Series,28W)
i5-1250P	Intel® Core™ i5-1250P processor with 4 P-cores and 8 E-cores up to 4.4GHz   12MB Intel® Smart Cache   Intel® Iris® Xe Graphics architecture with 80 EUs   Intel® code name Alder Lake-P (P-Series,28W)
i5-1235U	Intel® Core™ i5-1235U processor with 2 P-cores and 8 E-cores up to 4.4GHz   12MB Intel® Smart Cache   Intel® Iris® Xe Graphics architecture with 80 EUs   Intel® code name Alder Lake-P (U-Series,15W)
i3-1215U	Intel® Core™ i3-1215U processor with 2 P-cores and 4 E-cores up to 4.4GHz   10MB Intel® Smart Cache   Intel® UHD Graphics 64EU   Intel® code name Alder Lake-P (U-Series,15W)

### Intel 13th CPU Support List

13th Gen Intel® Core™ mobile processors (formerly Raptor Lake-P)	
CPU Module	Description
i9-13900HK	Intel® Core™ i9-13900HK processor with 6 P-cores and 8 E-cores up to 5.4GHz   24MB Intel® Smart Cache   Intel® Iris® Xe Graphics architecture with 96 EUs   Intel® code name Raptor Lake-P (H-Series,45W)
i7-13800H	Intel® Core™ i7-13800H processor with 6 P-cores and 8 E-cores up to 5.2GHz   24MB Intel® Smart Cache   Intel® Iris® Xe Graphics architecture with 96 EUs   Intel® code name Raptor Lake-P (H-Series,45W)
i5-13600H	Intel® Core™ i5-13600H processor with 4 P-cores and 8 E-cores up to 4.8GHz   18MB Intel® Smart Cache   Intel® Iris® Xe Graphics architecture with 80 EUs   Intel® code name Raptor Lake-P (H-Series,45W)
i7-1360P	Intel® Core™ i7-1360P processor with 4 P-cores and 8 E-cores up to 5.0GHz   18MB Intel® Smart Cache   Intel® Iris® Xe Graphics architecture with 96 EUs   Intel® code name Raptor Lake-P (P-Series,28W)
i5-1350P	Intel® Core™ i5-1350P processor with 4 P-cores and 8 E-cores up to 4.7GHz   12MB Intel® Smart Cache   Intel® Iris® Xe Graphics architecture with 80 EUs   Intel® code name Raptor Lake-P (P-Series,28W)
i5-1335U	Intel® Core™ i5-1335U processor with 2 P-cores and 8 E-cores up to 4.6GHz   12MB Intel® Smart Cache   Intel® Iris® Xe Graphics architecture with 80 EUs   Intel® code name Raptor Lake-P (U-Series,15W)
i3-1315U	Intel® Core™ i3-1315U processor with 2 P-cores and 4 E-cores up to 4.5GHz   10MB Intel® Smart Cache   Intel® UHD Graphics 64EU   Intel® code name Raptor Lake-P (U-Series,15W)



**Note :** We also supply embedded CPU version , so if you need HE(45W)/PE(28W) CPU , please contact our sales channel .