

Rugged Edge Computer

RugCon RVS-T1F / X1F

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), 2 network ports / 8 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-X1F

RVS-T1F

Features

- ✓ 2x LAN
- ✓ 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-PCle 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

Product Name	RugCon-RVS-T1F / RVS-X1F (M12 LAN)
Generation	Intel® 13th/ 12th-Gen Core™ i9 / i7 /i5 (U_15W, P_28W, H_45W)
Memory	Max. Capacity : 64GB DDR5 with 2x SO-DIMM
Display	2x Display 1x Display Port, 4096*2304@60Hz 1x HDMI , 4096*2160@60Hz
LAN	1x 2.5 GbE with TSN support , 1x GbE , M12 X-coded connector for LAN Ports (RVS- X1F)
CAN	N//A
COM	1x RS232/422/485, 1x RS232
USB	8x USB (6x USB 3.2, 2x USB 2.0)
Audio	1x 3.5mm jack for Mic-In and Line-out
DIO	N//A
Storage	2x M.2 2242 M key (SATA III SSD) , Support Raid 0/1 , (1x M.2 2242 share with M.2 3052)
Internal Expansion	1x M.2 2242/3052 M-B key with SIM slot, support 4G/5G 1x Full Size Mini-PCle with SIM slot, support 4G/5G 1x M.2 Key E Type 2230 for WIFI/BT/GPS
Mechanical	Dimension : 145(W) x 125(D) x60(H) mm , Weight : 1.1 Kg , Mounting : Wall Mount
Temperature	Operating :Standard : -40°C~70 °C (According to CPU) Storage Temperature : -40°C to 85°C
Humidity	Operating : 0~95%(non-condensing) Storage : 10~90%
Power	1x 3-pin pluggable terminal block for 6~48V DC Input 200V/1ms Surge Protection, Reverse-Voltage, Over-Voltage, Under-Voltage, Over-Current Protection 1x Power Button 1x 4-pin pluggable terminal block for Ignition/Remote
Vibration / Shock	Vibration test according to MIL-STD-810H, Method 514.8, Category 4 Shock test according to MIL-STD-810H, Method 516.8, Procedure I
EMC	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/13/12th generation Core™ i9/i7/i5 (15W/28W/45W) processor can reach up to 16-core /22 threads, providing ultra-high computing performance.

RugCon **RVS-T1F**

Super Small : 145 x 125 x 60 mm

RugCon **RVS-X1F**

M12 A-code Connectors for LAN Ports

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

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

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

1x Full Size Mini-PCle(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)

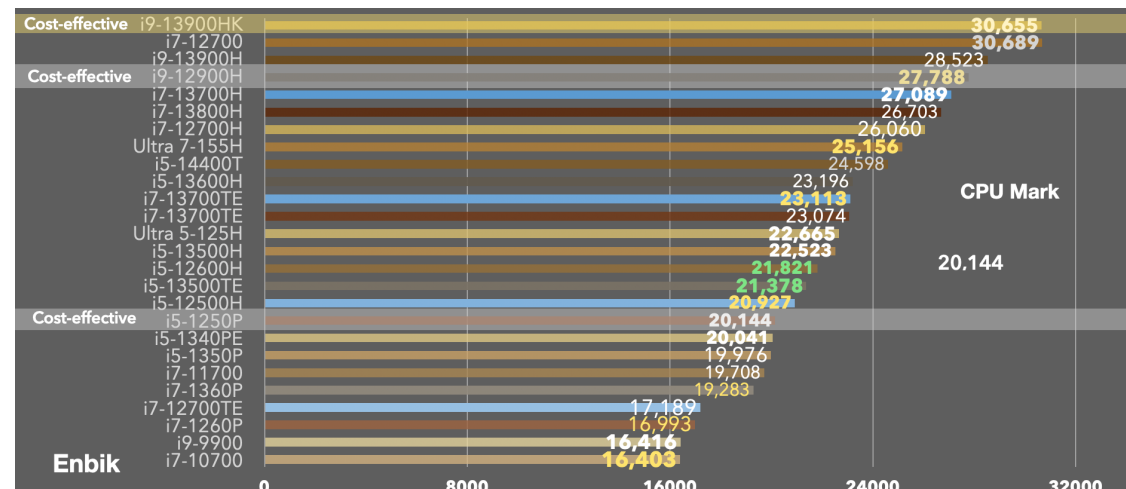
Ignition Control /
Remote Control

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

2x RJ45 LAN
1x 2.5 GbE , 1x GbE

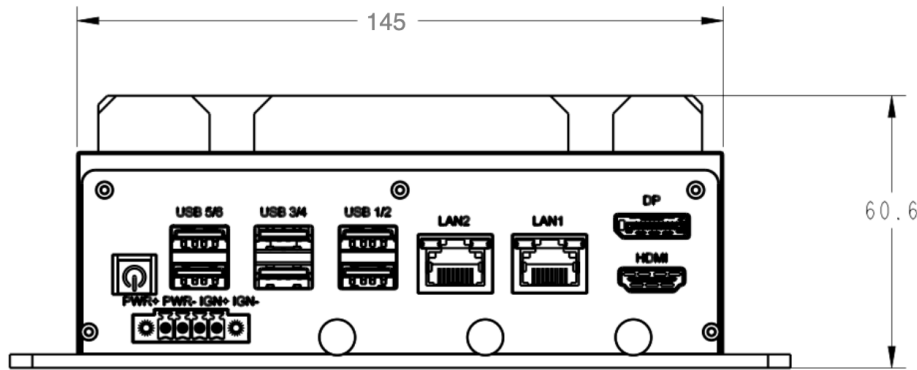
2x Display
1x DP, 1x HDMI

Performance



Dimension :

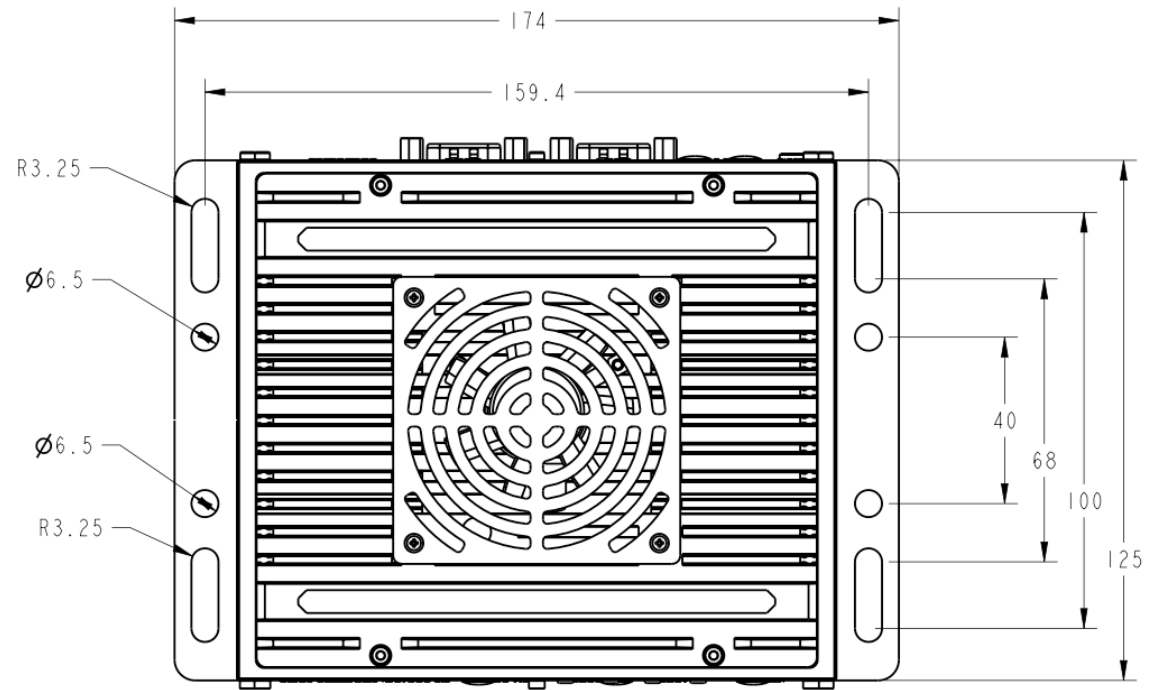
Compact Slim : 145 mm x 125 mm x 60 mm



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 .