

RugCon : RVP-Plus

RVP-P2F / PX2F

Ultra-Slim Wide Temperature Rugged Edge Computer

Wide DC INPUT 6V~48V

Equipped with the latest Intel® 12th/13th generation Core i processor (U_15W,P_28W,H_45W), 2 network ports / 8 USB / 3 Display / 8 GPIO / 2 COM / Dual M.2 SSD / 5G / WIFI and vehicle ignition power control / remote power control

Fit Anywhere and Everywhere

Ultra Slim : 203 mm x 125 mm x 54 mm

SPECIFICATION

Product Name	RugCon-RVP-P2F / RVP-PX2F (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	3x Display 1x Display Port, 4096*2304@60Hz 2x HDMI, 4096*2160@30Hz
LAN	1x 2.5 GbE, 1x GbE, M12 A-coded connector for LAN Ports (RVP- PX2F)
CAN	N//A
COM	1x RS232/422/485, 1x RS232
USB	8x USB (6x USB3.2 GEN1x1 5Gbps, 2x USB 2.0)
Audio	1x 3.5mm jack for Mic-In and Line-out
DIO	8x GPIO
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 : 203(W) x 125(D) x 54(H) mm, Weight : 1.3 Kg, Mounting : Wall Mount
Temperature	Operating :Standard : -40°C to 70°C (According to TDP) Storage Temperature : -40°C to 85°C
Humidity	10% to 90%, non-condensing
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



RVP-PX2F

RVP-P2F

Features

- ✓ Intel® 13th/ 12th-Gen Core™ i9/i7/i5/i3 (15W/28W/45W)
- ✓ 2x LAN Ports (RJ45 or M12 Connectors)
- ✓ 3x Displays (2x HDMI, 1x DP)
- ✓ 1x RS232/422/485, 1x RS232
- ✓ 8x GPIO
- ✓ 8x USB (Support 6x USB3.2 GEN1)
- ✓ 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 switch Control
- ✓ Remote Power on/off Control

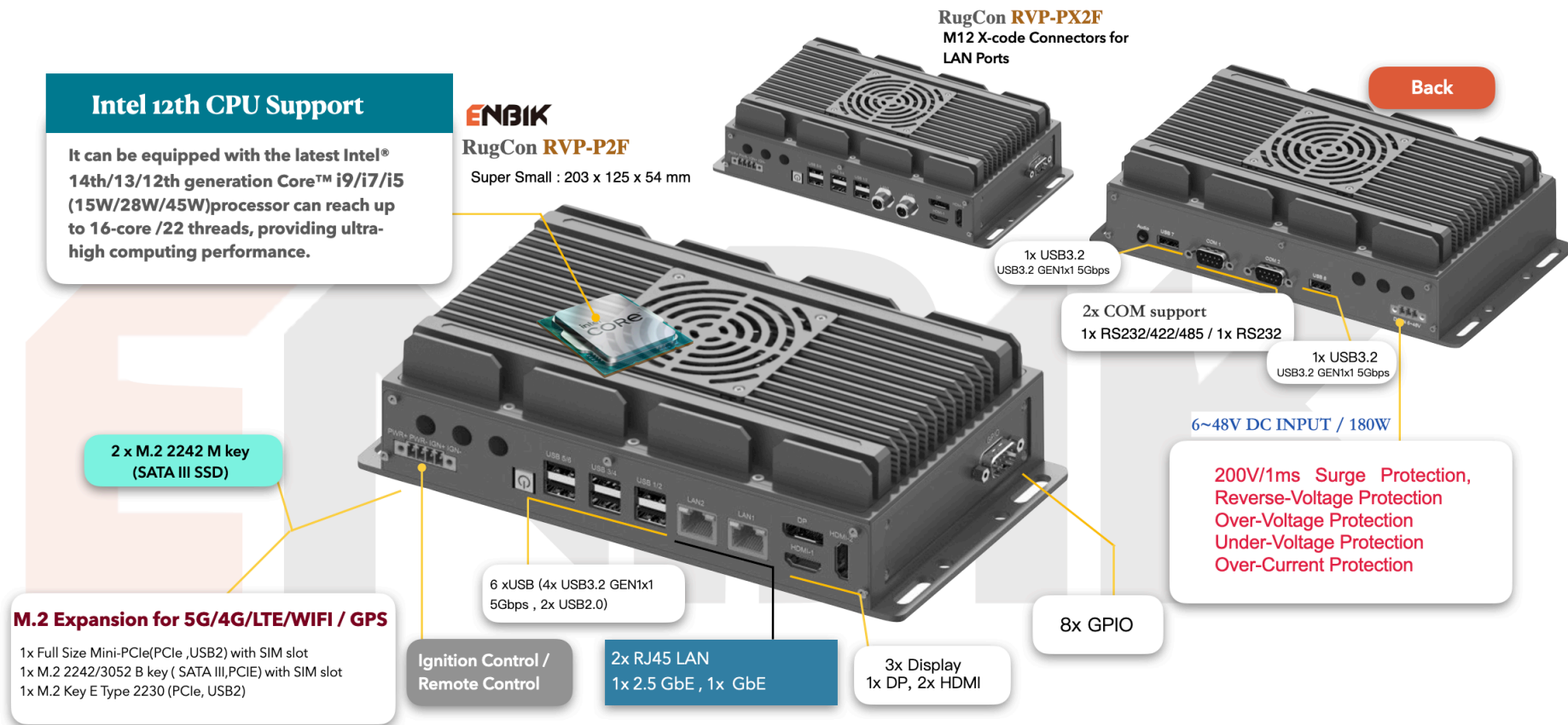
Product Introduction

ENBIK RugCon-RVP-P2F/PX2F is a **mini-slim wide temperature rugged edge computer** that can be equipped with **desktop-level high-performance processors**. It is only 203 x 125 x 54 mm, which is very suitable for space-limited installation and deployment, and perfectly combines Intel® 13/12th generation Core™ i9/i7/i5/i3 (15W/28W/45W) high-performance processor and precise I/O design. **RVP-P2F/PX2F** provides a wide range of I/O ports, including 2 LANs, 1 RS232/422/485, 1 RS232, **8 USBs**, **2 HDMI**, **1 DP**, **8 GPIO** and multiple M.2 internal expansion slots for 5G/4G/WIFI/GPS. **RVP-P2F/PX2F** also has 2 M.2 2242 SATA III, which can install two solid-state drives at the same time.

ENBIK RVP-P2F/PX2F supports MXM expansion interface, which can flexibly integrate **ENBIK's MXM GPU AI computing box** to improve edge AI deep learning and reasoning capabilities. While driving high-performance computing with low-power consumption configuration, it helps to reduce power consumption. With high computing power, high stability and high reliability, it helps customers achieve deployment-intensive artificial intelligence reasoning applications and maintain high cost-effectiveness.

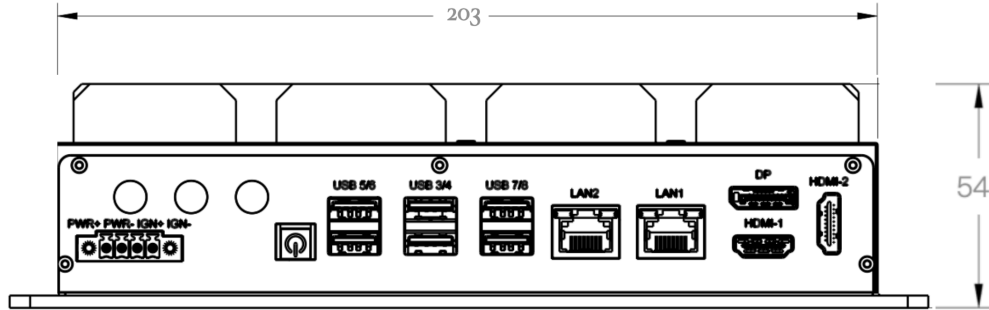
Product Application

ENBIK RugCon-**RVP-P2F/PX2F** is suitable for edge computing, IoT, machine vision, AGV/AMR, In-Vehicle systems, rail transit, robot control, drone and automation control, as well as various harsh and extreme edge environments with limited installation space and limited power supply.



Dimension :

Compact Slim : 203 mm x 125 mm x 54 mm

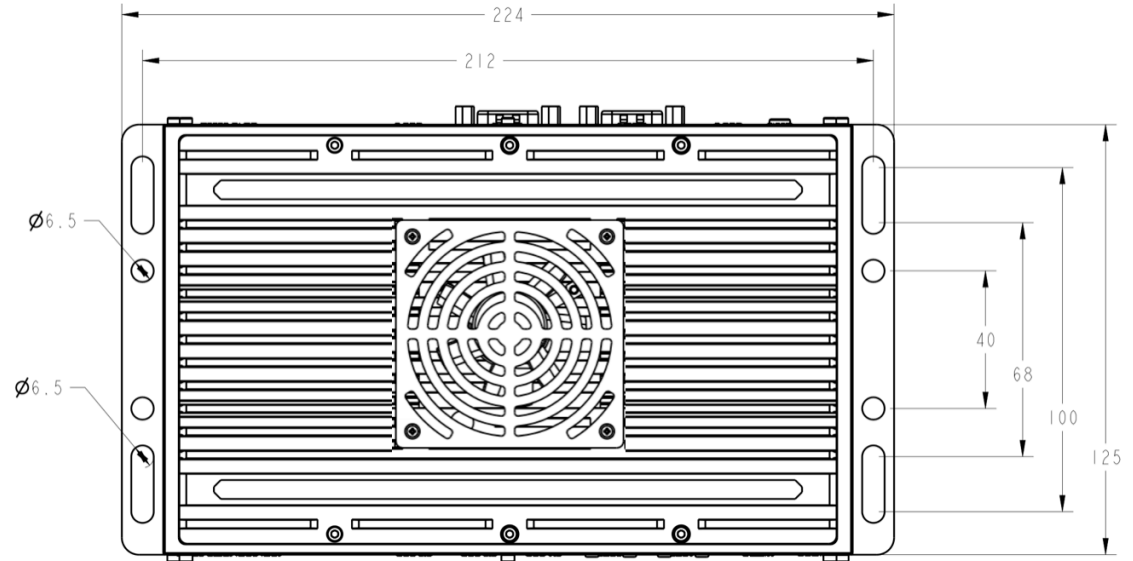


CPU Support :

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)

Note : Embedded or other Processors also be supported , please contact our sales channel .



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)