

# ISD-V330

**Rugged In-vehicle Gateway with  
Multi-WAN Connectivity**



## ■ Features

- Intel® Atom™ x6425E Processor (codenamed Elkhart Lake)
- 1x DDR4 3200MT/s SODIMM slot up to 32GB with In Band ECC
- 3x Removable PGN Series Caddy, 1x M.2 3042 B-Key socket with dual nano-SIM slot for 4G LTE, 1x M.2 2230 E-Key socket for WiFi
- 2x GbE RJ45, 3x USB 2.0, 1x USB 3.0, 2x HDMI, 1x TPM 2.0
- 2x RS232/422/485, 1x CAN 2.0, 4x DIO isolation
- eMMC 64GB up to 128GB storage, 1x SATA
- Operating temperature: -40~70°C

## ■ Specifications

### Processor System

CPU	Intel® Atom™ x6425E Processor
Frequency	2.0 GHz
Core Number	4
BIOS	AMI SPI Flash BIOS
Chipset	SoC
Graphic Processor	Intel® UHD Graphics

### Fanless

Yes

### Memory

Technology	DDR4 3200MT/s SODIMM with In Band ECC
Max. Capacity	32GB (Default 4GB)
Socket	1x 260pin SODIMM

### Ethernet

Controller	Intel i210IT
Interface	2x GbE RJ45

### Storage

Type	SATA
Installation	1x SATA (reserved)
Type	eMMC
Installation	Onboard eMMC 64GB up to 128GB

### I/O

Display	2x HDMI with screw lock
CAN	1x CAN 2.0 (option for J1939/J1708)
COM	2x RS-232/422/485
USB	3x USB 2.0, 1x USB 3.0 Type A
GNSS/G-sensor	u-blox NEO-M8N/ ADXL 345
Digital I/O	4x digital input with isolation, 5-30V/100mA, 4x digital output with isolation, 30V/ 2A dry relay configurable either N.C. or N.O., 1x IGN_DI to MCU
Antenna	6x SMA antenna hole (includes GNSS)

### Expansion

M.2	1x M.2 3042 B-Key Socket with dual nano-SIM slot for 4G LTE 1x M.2 2230 E-Key Socket for WiFi
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### Cooling

Processor	Passive CPU heatsink
System	Fanless design with corrugated aluminum

### Environment

Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Storage Temperature	-40°C ~ 85°C / -40°F ~ 185°F
Relative Humidity	5%~90% @ 40°C / 104°F (Storage Level)

### Miscellaneous

Hardware Monitoring	Yes
Internal RTC with Li Battery	Yes

### Mechanical

Dimension (W x H x D)	273.8 x 73 x 185 mm
Weight	4 kg
Mounting	wall mount kit

### Power

Input	Supports DC 9~36V (12/24V) level, support ignition delay on/off control
Connector	3-pin terminal block (+,-,ignition)
Power Consumption (Idle)	16.8W
Power Consumption (Full Load)	21.5W
Power Adapter	None

### Driver Support

Microsoft Windows	Windows 10 IoT Enterprise
Linux	Linux Kernel 5.4

### Certification

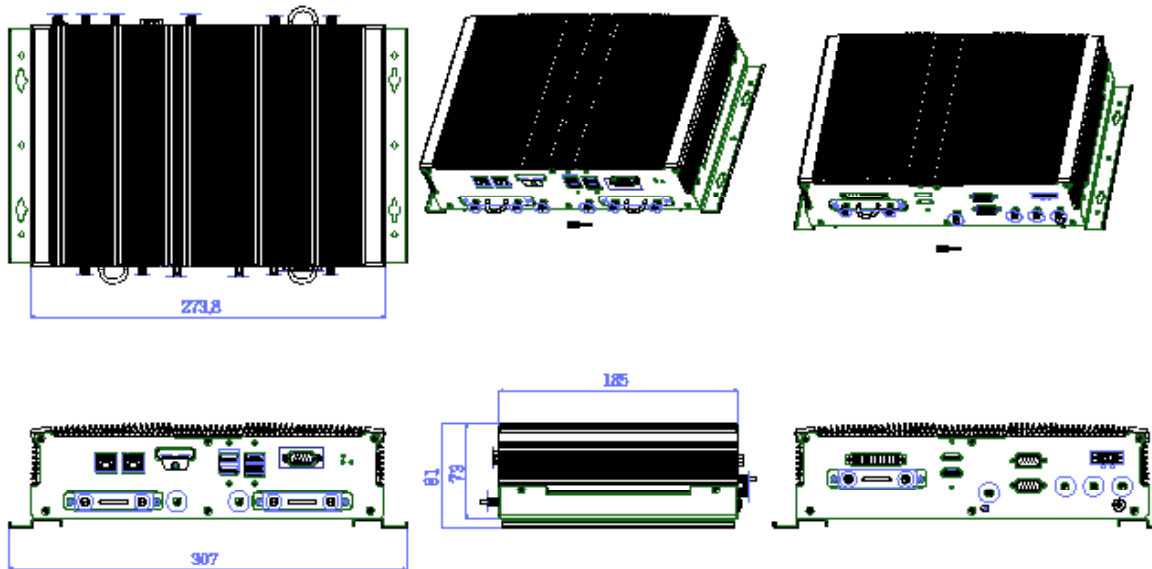
CE/FCC Class A, E13, UL/cUL 62368-1, MIL-STD-810G anti vibration & shock

## Product I/O View



- |                    |                           |                    |                  |
|--------------------|---------------------------|--------------------|------------------|
| <b>A</b> MIO       | <b>D</b> GPS Antenna Hole | <b>G</b> LAN       | <b>J</b> USB     |
| <b>B</b> PGN Caddy | <b>E</b> COM              | <b>H</b> PGN Caddy | <b>K</b> CAN Bus |
| <b>C</b> HDMI      | <b>F</b> DC 9~36V Input   | <b>I</b> SIM Slot  |                  |

## Dimensions 273.8 x 73 x 185 mm (10.78" x 2.87" x 7.28")



## Ordering Information

- |                             |   |
|-----------------------------|---|
| <b>ISD-V330A</b>            | Rugged In-vehicle Gateway with Multi-WAN Connectivity with Intel® Atom™ x6425E Processor    |
| <b>PGN-600</b>              | 4G LTE-Advanced Pro Radio Modem with LTE Cat-12 embedded module, certified with PTCRB, AT&T |
| <b>PGN 4G LTE Kit</b>       | PGN-600 FG w/o 4G LTE module  |
| <b>PGN-750D</b>             | PGN-750D FG w/o 5G Sub6 Module & External Antenna   |
| <b>PGN-750D Antenna Kit</b> | 5G Sub 6 ANTENNA KIT for PGN-750D FG  |

V.1-2024.6.21

**Lanner**

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