

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

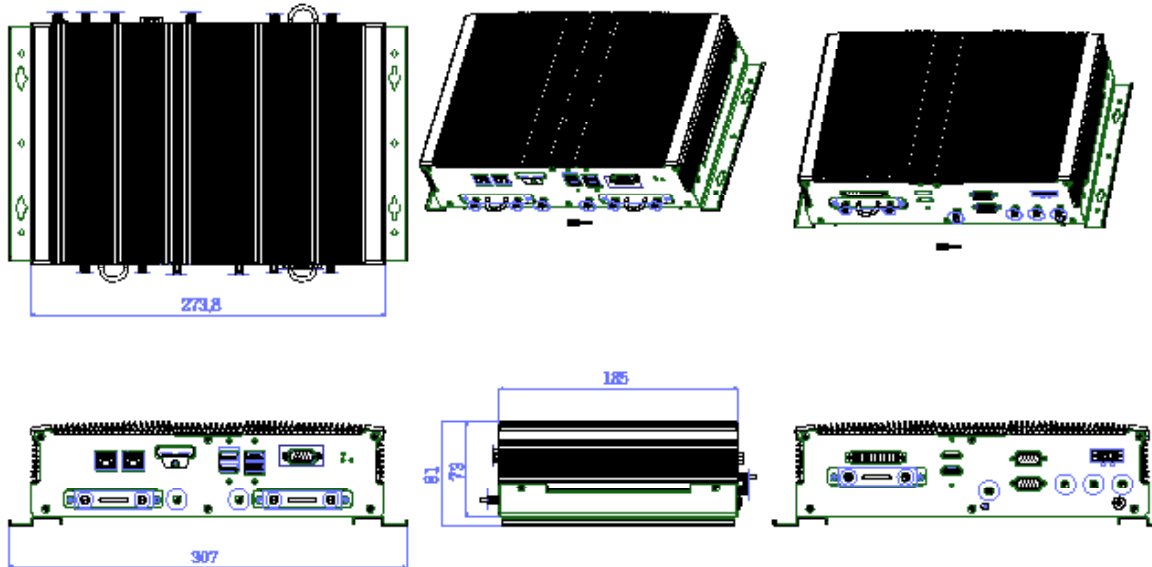
CE/FCC Class A, E24, UL/cUL 62368-1, MIL-STD-810G anti vibration & shock

Product I/O View



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

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



Ordering Information

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

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