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

Preliminary 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)

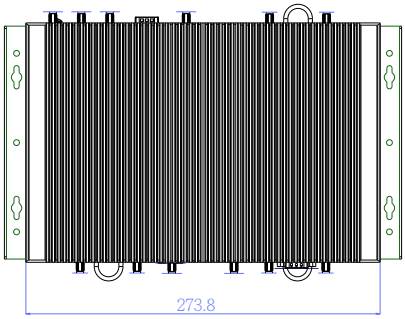
Expansion	
M.2	1x M.2 3042 B-Key Socket with dual nano-SIM slot for 4G LTE 1x M.2 2230 E-Key Socket for WiFi
Cooling	
Processor	Passive CPU heatsink
System	Fanless design with corrugated aluminum
Environment	
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F
Storage Temperature	-40°C ~ 85°C / -40°F ~ 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	
Connector	3-pin terminal block (+,-,ignition)
Input	Supports DC 9~36V (12/24V) level, support ignition delay on/off control
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

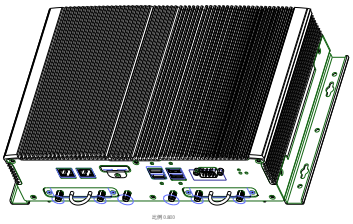
In-vehicle SD-WAN

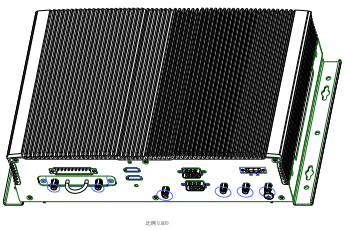
Product I/O View

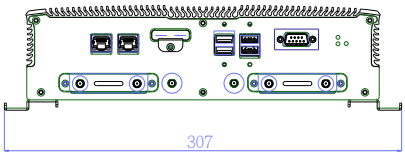
- A MIO
- B PGN Caddy
- C HDMI
- D GPS Antenna Hole
- E COM
- F DC 9~36V Input
- G LAN
- H PGN Caddy
- I SIM Slot
- J USB
- K CAN Bus

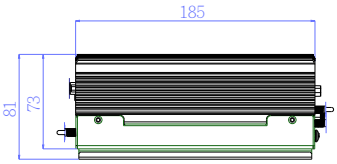
Dimensions 273.8 x 73 x 185 mm (10.78" x 2.87" x 7.28")

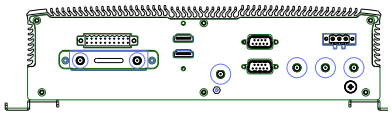












Ordering Information

ISD-V330A	Rugged In-vehicle Gateway with Multi-WAN Connectivity with Intel® Atom™ x6425E Processor
PGN-300	4G LTE Radio Modem with LTE Cat-6 embedded module, certified with PTCRB, AT&T, Verizon
PGN-600	4G LTE-Advanced Pro Radio Modem with LTE Cat-12 embedded module, certified with PTCRB, AT&T
PGN-750A	Swappable 5G Telit FN980 module with antenna/cable kit
PGN-750B	Swappable 5G Quectel RM500Q-AE module with antenna/cable kit
PGN-750C	Swappable 5G Thales MV31-W module with antenna/cable kit.

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