

ICS-R372

Fanless Rolling Stock Computer with
Intel® Atom™ x7-E3950 Processor



■ Features

- Intel® Atom™ x7-E3950 Processor
- Certified with EN50155, EN50121, EN50125 and EN45545
- Vehicle/Rail Computer with 6x M12 GbE ports
- 2x M.2 Slots with up to 4x SIM card readers
- Wide range operating temperature from -40 to 70°C
- 2x HDMI and 4x USB ports
- 1x Internal HDD/SSD drive bay
- Support 24~36V or 72~110V power input

■ Preliminary Specifications

Processor

System	Atom™ x7-E3950
CPU Frequency	1.6 GHz
Core Number	Quad-core
BIOS	AMI SPI Flash BIOS
Chipset	SoC
Processor Graphics	Intel integrated HD Graphics 505

Fanless

	Yes
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Memory

Technology	LPDDR4 up to 2133 MHz
Max. Capacity	Up to 8GB (Factory default: 8GB)

Ethernet

Controller	Intel i210IT x6
Speed	10/100/1000 Mbps
Interface	M12 X-coded GbE x6

Storage

	SATA
Type Installation	Internal 2.5" drive bay x1 (HDD/SSD is not included)
Type	mSATA
Installation	mSATA socket x1 (default 128 GB)

I/O

Display	HDMI x2
GPS	u-blox NEO-M8N; 3 GNSS (GPS, Galileo, GLONASS, BeiDou), default @ GPS + GLONASS dual band
G-sensor	ADXL 345
USB	USB 2.0 Type A x4
Antenna	SMA antenna hole x5 (includes GPS+GLONASS x1)

Expansion

M.2	2x M.2 3042 B Key
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Cooling

Processor	
System	fanless design with corrugated aluminum

Environment

Operating Temperature	-40~70°C / -40~158°F
Storage Temperature	-40~85°C / -40~185°F
Relative Humidity	5%~95% @ 40°C / 104°F (Storage Level)

Miscellaneous

Hardware Monitoring	Yes
Internal RTC with Li Battery	Yes

Mechanical

Dimension (W x D x H)	272.4 x 228 x 88.3 mm
Weight	5 kg
Mounting	Wall mount kit

Power

Connector	M12 K-coded (Ground, DC_IN, Ground, IGN, Chassis Ground)
Input	SKU A: Input Rated: 24~36Vdc, SKU B: Input Rated: 72~110Vdc

Driver

Support	Win 10 IoT
Microsoft Windows	Linux: Redhat Enterprise 5, Fedora 14. Linux Kernel 5.18.8 or later

Certification

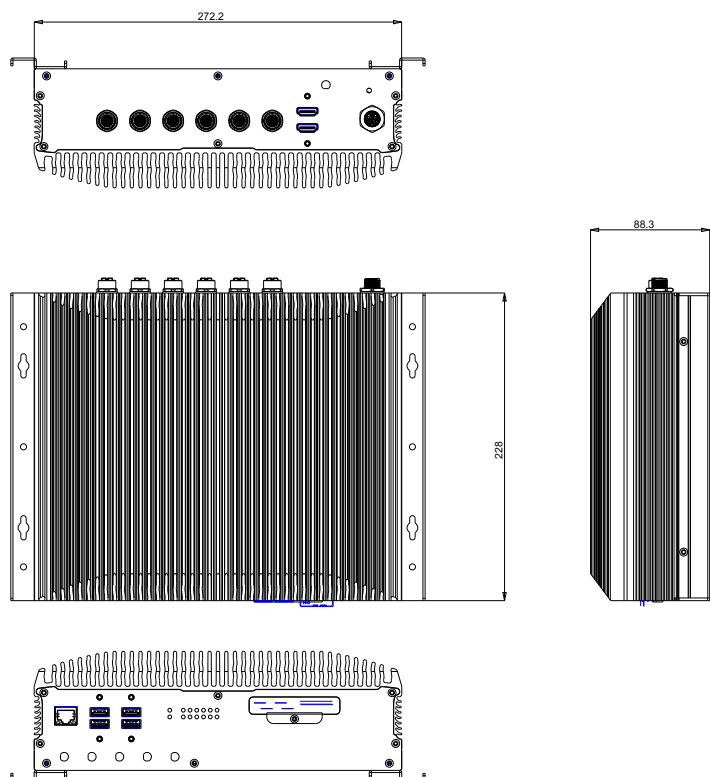
EMC	E13, CE Class A, FCC Class A, RoHS
Certified	MIL-STD-810G, EN50155, EN50121-3-2, EN50121-4, EN50125, EN 45545

Product I/O View



- | | | |
|-------------------------|-----------------------|---------------------------|
| A Wall mount kit | D DC Input | G GPS Antenna Hole |
| B Console | E Ground screw | H HDMI x 2 |
| C SIM/SDXC slot | F GbE x 6 | |

Dimensions 272.4 x 228 x 88.3 mm



Ordering Information

ICS-R372A

Intel Atom™ x7-E3950 Processor, 6x M12 X-coded GbE ports, 2x M.2 3042 B key socket with dual SIM each, DC 24~36V power input

ICS-R372B

Intel Atom™ x7-E3950 Processor, 6x M12 X-coded GbE ports, 2x M.2 3042 B key socket with dual SIM each, DC 72~110V power input

Lanner