

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

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

Fanless

Yes

Memory

Technology	LPDDR4 up to 2400 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

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

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	passive CPU heatsink
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 H x D)	272.4 x 88.3 x 228 mm (10.72" x 3.48" x 8.97")
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

Microsoft Windows	Win 10 IoT
Linux	Linux: Redhat Enterprise 5, Fedora 14. Linux Kernel 2.6.18 or later

Certification

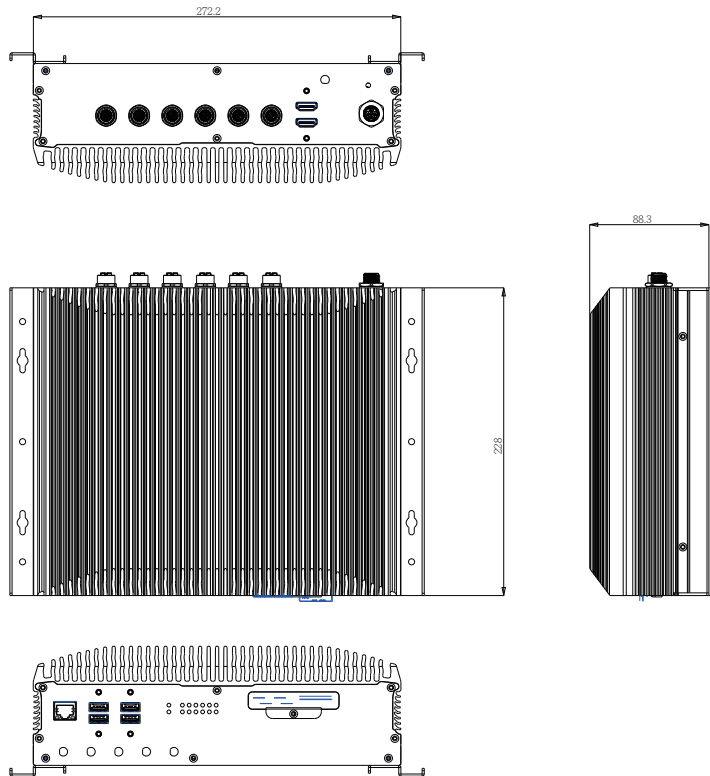
EMC	E13, CE Class A, FCC Class A, RoHS
Certified	MIL-STD-810G, EN50155, EN50121-3-2, EN50121-4, EN50125, EN 45545

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 88.3 x 228 mm (10.72" x 3.48" x 8.97")



Ordering Information

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|------------------|---|
| 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 |

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