

ICS-R373

**IP40-Rated Rolling Stock Computer
with Intel® Atom™ C3000 Processor**



Features

- Intel® Atom™ C3000 series processor
- 2x SODIMM DDR4, up to 64GB memory
- 4x GbE RJ45, 2x 2.5GbE RJ45
- 1x Console, 2x USB, 2x DI & 2x DO, 2x RS-232
- Certified with EN50155, EN50121, EN50125 and EN45545
- 1x M.2 E-Key for WiFi, 2x M.2 B-Key for LTE/5G, 1x Nano SIM Card (each for LTE/5G)
- 4x Concurrent GNSS (BeiDou, Galileo, GLONASS, GPS / QZSS)

Preliminary Specifications

Processor System

CPU	Intel® Atom™ C3708/C3508/C3308 (Denverton)
Frequency	1.7 GHz/1.6 GHz/1.6 GHz
Core Number	8/4/2
BIOS	AMI SPI Flash BIOS
Chipset	SoC

Fanless

Yes

Memory

Technology	1/ 2x DDR4 SODIMM w ECC/ non-ECC up to 2133/1866Mhz
Max. Capacity	64GB/32GB (By SKU)

Ethernet

Controller	Intel® i226IT & MARVELL_88E1548
Speed	10/100/1000 Mbps
Protection	1.5KV Isolation Protection
Interface	4x GbE RJ45, 2x 2.5GbE RJ45
Bypass	1 pair Gen3 for 2.5GbE (By SKU A)

Storage

Type	SATA
Installation	1x M.2 2242/2280 M-Key
Type	eMMC
Installation	Onboard eMMC 128GB/32GB TLC (By SKU)

I/O

GPS	u-blox NEO-M9V/SL869L-V2 (By SKU); 4 GNSS (BeiDou, Galileo, GLONASS, GPS/QZSS), Default GPS + GLONASS Dual Band
G-sensor	Include in GPS Module
USB	2x USB 2.0 Type A
OOB	1x RJ45 OOB (By SKU)
Reset Button	1x Reset Button
Antenna	11x SMA Antenna Hole, Includes 1x 4 Concurrent GNSS (BeiDou, Galileo, GLONASS, GPS / QZSS)

Expansion

M.2	1x M.2 2230 E-Key for WiFi 2x M.2 3042/3050/3052 B-Key for LTE/5G
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Cooling

Processor	passive CPU heatsink
System	IP40/Fanless System (optional IP51 KIT)

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% Operating; 5~95% Non-Operating

Miscellaneous

Watchdog	Yes
Internal RTC with Li Battery	Yes
TPM	Onboard TPM 2.0

Mechanical

Dimension (W x H x D)	280 x 83 x 196 mm
Protection Class	IP40 / option IP51
Weight	4.2 kg
Mounting	Wall mount kit (optional DIN Rail/VESA mount)

Power

Input	24~110VDC
Connector	2x 3-pin terminal block (+,-,ignition)
Power Consumption (Idle)	28.72W (A); 23.22W (B); 21.22W (C)
Power Consumption (Full Load)	35.28W (A); 29.78W (B); 27.78W (C)
Power Adapter	None

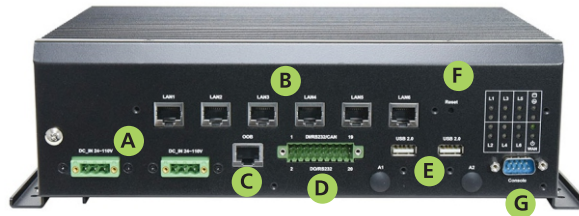
Driver Support

Microsoft Windows	Dabian 10 pre-installed, Win 10 IoT
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Certification

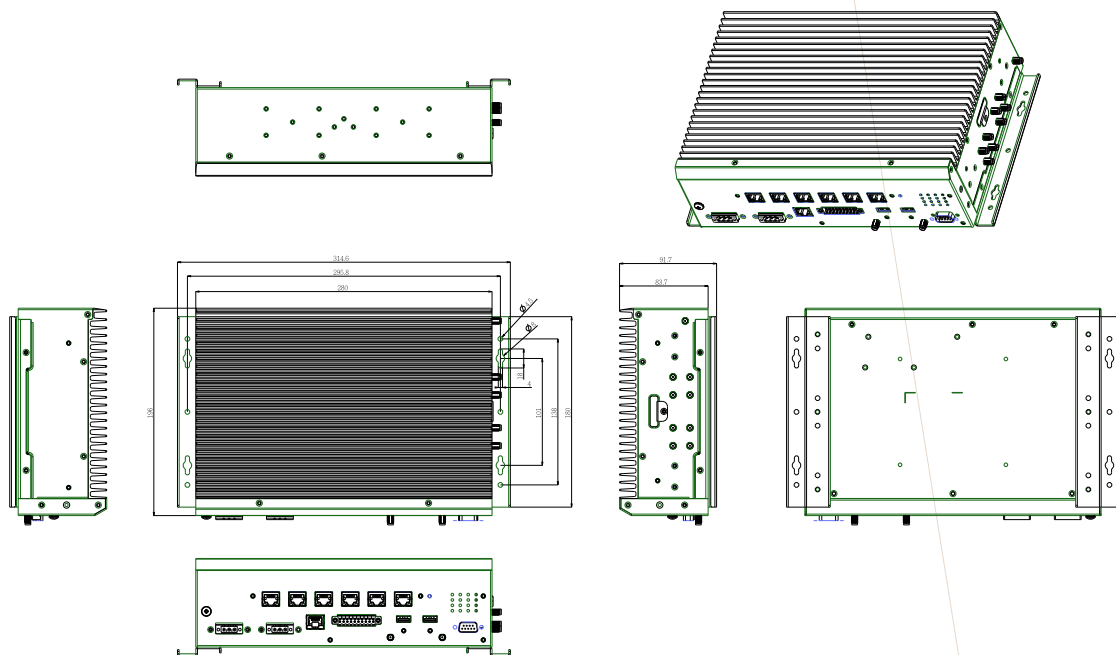
EMC	E24, CE Class A, FCC Class A, RoHS
Certified	MIL-STD-810G, EN 50125-3, EN 50124-1
Compliance	C1D2 (By SKU A), UL/IEC 62368-1, EN 50155, EN 50121-3-2, EN 50121-4, EN 45545-2, IEC-61850-3, IEEE 1613

■ Product I/O View



- A** Power Input
- B** LAN
- C** OOB
- D** DIO/COM/CANBus
- E** USB
- F** Reset Button
- G** Console

■ Dimensions 370 x 210 x 83 mm



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■ Ordering Information

- ICS-R373A** Intel Atom™ C3708 Processor, DDR4 non-ECC 16GB, eMMC 128GB ,4x GbE RJ45, 2x 2.5GbE RJ45 w bypass, TPM2.0, GPS, OOB, DC 24-110V w Ignition power input
- ICS-R373B** Intel Atom™ C3508 Processor, DDR4 non-ECC 8GB, eMMC 32GB ,4x GbE RJ45, 2x 2.5GbE RJ45, TPM2.0, GPS, OOB, DC 24-110V w Ignition power input
- ICS-R373C** Intel Atom™ C3308 Processor, DDR4 non-ECC 4GB, eMMC 32GB ,4x GbE RJ45, TPM2.0, GPS, DC 24-110V w Ignition power input