



DCO-1000-ASL

DIN-Rail Fanless Embedded Computer with Intel® Atom® x7433RE CPU, 2x DP, 2x COM, 4x USB, 4x LAN



Features

- Support Intel® Atom® x7433RE Processor
- 1x 262-pin DDR5 SODIMM. Max. up to 16GB
- Dual Independent Display by 2x Display Port
- 4x 2.5GbE LAN
- 2x M.2 (B Key, 3042/3052, Support 4G/5G)
- 2x RS-232/422/485, 2x USB 3.2 Gen2, 2x USB 2.0
- 9 to 36VDC Wide Range Power Input Supporting AT/ATX Mode
- Wide Operating Temperature -40°C to 55°C
- TPM 2.0 Supported
- CE, FCC, UL



Specifications

System

Processor	Support Intel® Atom® Processor (Up to 9W TDP) -Intel® Atom® Processor x7433RE, Quad Core, CPU HFM 1.5 GHz/1C Turbo 3.2GHz, GPU 32EU, TDP 9W
System Chipset	SoC integrated
LAN Chipset	2.5 GbE1: Intel I226 2.5 GbE2: Intel I226 2.5 GbE3: Intel I226 2.5 GbE4: Intel I226 (Support TSN) (LAN #1-2 Shared PCIe Gen 2 x1 Lane bandwidth)
System Memory	1x 262-Pin DDR5 4800MHz SODIMM. Max. up to 16GB (In-Band ECC/Non-ECC)
Graphics	Intel® UHD Graphics
BIOS	AMI SPI BIOS
Watchdog	Software Programmable Supports 1~255 sec. System Reset
TPM	TPM 2.0

Display

Display Port	2x DisplayPort 1.4, DP (4096 x 2160@60Hz)
Multiple Display	Dual Display

Storage

M.2	1x M.2 (B Key, 3042/3052, PCIe x2, support NVMe)
SIM Socket	1x Dual Nano SIM Socket

Expansion

M.2	1x M.2 (B Key, 3042/3052, USB 3.2 Gen2 & USB2.0, support 4G/5G Module) 1x M.2 (E key, 2230, PCIe x1 & USB2.0, support Wifi/Bluetooth)
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I/O

CAN	2x 2-pin Internal header (Optional)
COM	2x RS-232/422/485
DIO	4 in / 4 out (Isolated)
LAN	4x RJ45
OOB	1x RJ45 (Optional)
USB	2x USB 3.2 Gen 2 (10 Gbps) 2x USB 2.0
Others	4x WiFi Antenna Holes 1x Power Switch, 1x Reset Switch 1x AT/ATX Internal Switch Jumper 1x 2-PIN Remote Power On/Off 1x Internal CMOS Battery Cable

Operating System

Windows	Windows 10/Windows 11
Linux	Linux kernel 5.X

Power

Power Adapter	Optional AC/DC 12V/5A, 60W
Power Mode	AT, ATX
Power Supply Voltage	9~36VDC
Power Connector	3-pin Terminal Block
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection

Environment

Operating Temperature	-40°C to 55°C
Storage Temperature	-40°C to 85°C

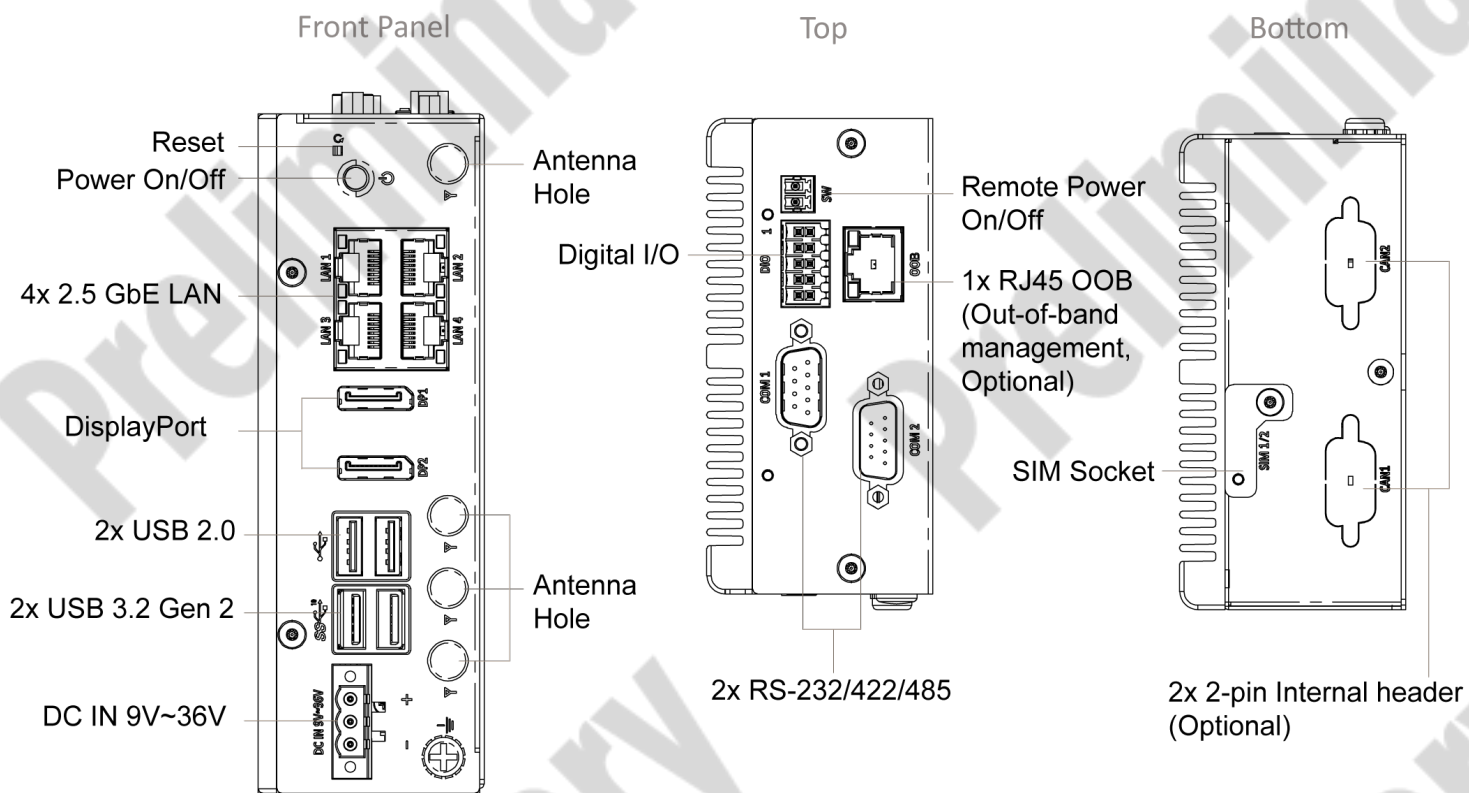
Relative Humidity	10% to 95% (non-condensing)
Certification	CE, FCC Class A, UL
Vibration	• Wall Mounting with NVMe SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis • DIN Rail Mounting with NVMe SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis Designed to comply with MIL-STD-810G Method 514.7 Procedure I
Shock	With SSD: 20G, half sine, 11ms Designed to comply with MIL-STD-810G Method 514.7 Procedure I

Physical

Dimensions (W x D x H)	150 x 105 x 49 mm
Weights	0.85 kg
Construction	Extruded Aluminum with Heavy Duty Metal
Mounting Options	DIN-Rail Mounting Wall Mounting (Optional)

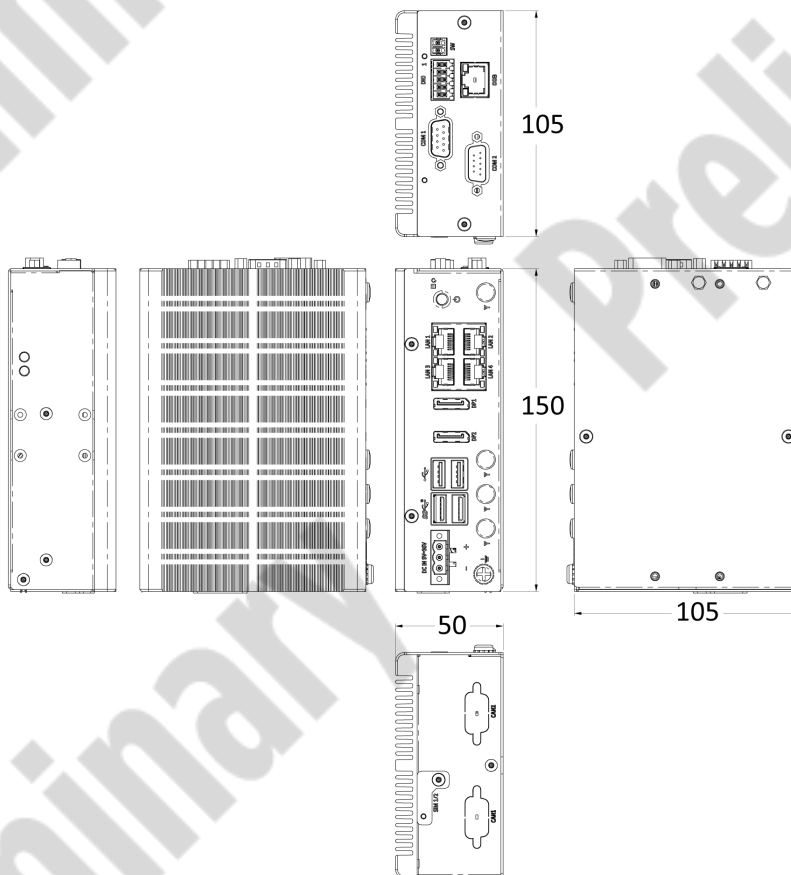
* For configured to run at 9W, operating temperatures will be limited to 55°C.
** 9W CPUs may experience thermal throttling depending on extreme application workloads; this is also due to an increase in the physical CPU cores from the Intel silicon (up to 4 cores). Please note, this does not indicate system malfunction or problems in the fanless design. Please consult our embedded engineers for the best configuration to match your application requirements.
*** All specifications and photos are subject to change without notice.

External I/O Mechanical Layout



Dimension

Unit: mm



Available Models

Model No.	Description
DCO-1000-ASL-x7433RE	DIN-Rail Fanless Embedded Computer with Intel® x7433RE CPU, 2x DP, 2x COM, 4x USB, 4x LAN

Optional Accessories

Model No.	Description
1-E09A06007	Adapter AC/DC 12V 5A 60W with 3pin Terminal Block Plug 5.0mm Pitch
1-TPCD00005	Power Cord, 3-pin US Type, 180cm
1-TPCD00002	Power Cord, European Type
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm

Packing List

1x DCO-1000-ASL Series Embedded System
1x DIN-Rail Mount Kit
1x Accessory Kit