cincoze™

DI-1100

Rugged Embedded Computer

Key Benefits

- **8th Gen Intel® Core™** Processing with i7, i5 or i3 U-Series processor options and 15 W TDP
- **Versatile Connectivity** with dual GbE LAN, USB 3.2, serial interfaces and triple independent display support
- **Flexible Expansion** with dual Mini PCIe sockets, dual SIM slots and optional CMI modules, including 10GbE and M12 connectivity
- **Modular Functionality** with optional CFM modules for PoE and power ignition sensing
- **Rugged Fanless Design** with -40°C to +70°C operating temperature and 9–48 V DC power input



Overview

The DI-1100 is a compact, fanless embedded computer designed for industrial automation, transportation and IoT applications. Powered by 8th Gen Intel® Core™ U-Series i7, i5 or i3 processors, it supports up to 32 GB DDR4 memory, triple independent displays and a range of industrial connectivity options. Dual Mini PCIe sockets, front-accessible SIM slots and optional CMI/CFM modules provide flexible expansion, including 10GbE, PoE and ignition sensing capabilities. Its rugged construction, -40°C to +70°C operating temperature range and 9–48 V DC power input support deployment in demanding environments.

Certifications

Power Ignition Sensing · PoE · RAID · EN50121-3-2 · E13 · FC · CE · MEC TECHNOLOGY · CMI TECHNOLOGY · CFM TECHNOLOGY





TRIED, TESTED & **TRUSTED**

Specifications

Model Name	DI-1100
System	
Processor	Onboard 8th Intel® Core™ U Processors (Whiskey Lake) ▪ Intel® Core™ i7-8665UE Quad Core Processor (8M Cache, up to 4.4 GHz, 15W) ▪ Intel® Core™ i5-8365UE Quad Core Processor (6M Cache, up to 4.10 GHz, 15W) ▪ Intel® Core™ i3-8145UE Dual Core Processor (4M Cache, up to 3.90 GHz, 15W)
Memory	▪ 1x DDR4 SO-DIMM Socket, Support Up to 2400MHz 32 GB (Un-buffered and non-ECC)
BIOS	▪ AMI BIOS
Graphics	
Graphics Engine	▪ Integrated Intel® UHD Graphics 620
Maximum Display Output	▪ Supports Triple Independent Display
HDMI®	▪ 1x HDMI® Connector (4096 x 2304@60Hz)
DP	▪ 1x DisplayPort Connector (4096 x 2304 @ 60Hz, According to CPU Specifications) * Verified maximum resolution: 3840x2160
VGA	▪ 1x VGA Connector (1920 x 1200 @60Hz)
Audio	
Audio Codec	▪ Realtek® ALC888, High Definition Audio
Line-out	▪ 1x Line-out, Phone Jack 3.5mm
Mic-in	▪ 1x Mic-in, Phone Jack 3.5mm
I/O	
LAN	▪ 2x GbE LAN, RJ45 - GbE1: Intel® I219 - GbE2: Intel® I210
COM	▪ 2x RS-232/422/485 with Auto Flow Control (Supports 5V/12V), DB9
USB	▪ 2x 10 Gbps USB 3.2 Gen2, Type A ▪ 2x 5 Gbps USB 3.2 Gen1, Type A ▪ 2x 480 Mbps USB 2.0, Type A
PS/2	▪ 1x PS/2, 6 Pin Mini-DIN Female Connector
Storage	
SSD/HDD	▪ 1x 2.5" Front Accessible SATA HDD/SSD Bay (SATA3.0)
mSATA	▪ 1x mSATA Socket (SATA 3.0, shared by Mini-PCIe socket)
RAID	▪ Support RAID 0/1
Expansion	
Mini PCI Express	▪ 2x Full-size Mini-PCIe Socket
SIM Socket	▪ 2x SIM Socket
CMI (Combined Multiple I/O) Interface	▪ 1x High Speed CMI Interface for optional CMI Module Expansion ▪ 1x Low Speed CMI Interface for optional CMI Module Expansion
CFM (Control Function Module) Interface	▪ 1x CFM IGN Interface for optional CFM-IGN Module Expansion
Other Function	
External FAN Connector	▪ 1x External FAN Connector, 4-pin Terminal Block (Support Smart Fan by BIOS)

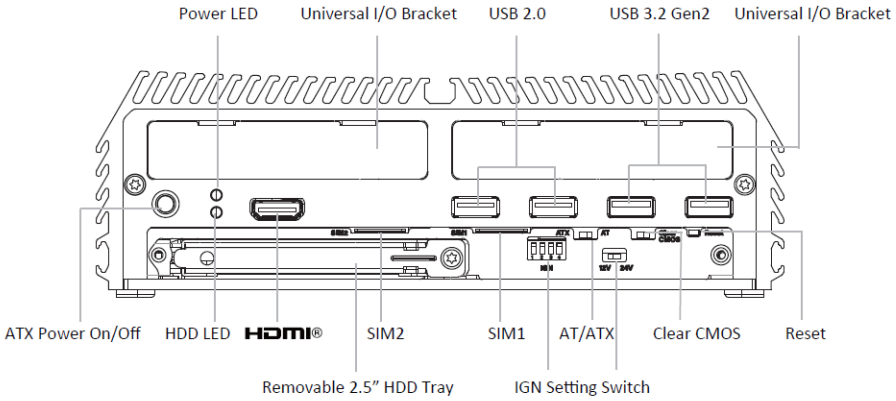
Power Ignition Sensing	▪ Support Power Ignition Sensing Function with Delay Time Management and Selectable 12V/24V (With Optional CFM Module)
Clear CMOS Switch	▪ 1x Clear CMOS Switch
Reset Button	▪ 1x Reset Button
Instant Reboot	▪ Support 0.2sec Instant Reboot Technology
Watchdog Timer	▪ Software Programmable Supports 256 Levels System Reset
Power Requirement	
Power Button	▪ 1x ATX Power On/Off Button
Power Mode Switch	▪ 1x AT/ATX Mode Switch
Power Input	▪ 9 - 48VDC, 3-pin Terminal Block
Remote Power On/Off	▪ 1x Remote Power On/Off, 2-pin Terminal Block
Remote Power LED	▪ 1x Remote Power LED, 2-pin Terminal Block
Total Power Budget	▪ 120W
Physical	
Dimension (W x D x H)	▪ 203 x 142 x 66.8 mm
Weight Information	▪ 1.74 KG
Mechanical Construction	▪ Extruded Aluminum with Heavy Duty Metal
Mounting	▪ Wall / Side / DIN-RAIL / VESA Mount
Physical Design	▪ Fanless Design ▪ Cableess Design ▪ Jumper-less Design ▪ Unibody Design
Reliability & Protection	
Reverse Power Input Protection	▪ Yes
Over Voltage Protection	▪ Protection Range: 51~58V ▪ Protection Type: shut down operating voltage, re-power on at the preset level to recover
Over Current Protection	▪ 15A
CMOS Battery Backup	▪ SuperCap Integrated for CMOS Battery Maintenance-free Operation
MTBF	▪ 513,628 Hours - Database: Telcordia SR-332 Issue3, Method 1, Case 3
Operating System	
Windows	▪ Windows® 10
Linux	▪ Supports by project
Environment	
Operating Temperature	▪ 15W CPU: -40°C to 70°C * PassMark Burn-In Test: 100% CPU, 2D/3D Graphics (without thermal throttling) * With extended temperature peripherals; Ambient with air flow * According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14 ▪ 15W CPU + 61.6W PoE + FAN: -40°C to 70°C * PassMark Burn-In Test: 100% CPU, 2D/3D Graphics (without thermal throttling) * 4 Port PoE Full-load, IEEE 802.3af Class3(15.4 Watt) * With extended temperature peripherals; Ambient with air flow
Storage Temperature	▪ -40°C to 85°C
Relative Humidity	▪ 95%RH @ 70°C (non-Condensing)
Shock	▪ MIL-STD-810G

Vibration	▪ MIL-STD-810G
EMC	▪ CE, UKCA, FCC, ICES-003 Class A ▪ EN 50155 (EN 50121-3-2 Only) ▪ E-mark
EMI	▪ CISPR 32 Conducted & Radiated: Class A ▪ EN/BS EN 50121-3-2 Conducted & Radiated: Class A ▪ EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A ▪ EN/BS EN61000-3-3 Voltage fluctuations & flicker ▪ FCC 47 CFR Part 15B, ICES-003 Conducted & Radiated: Class A
EMS	▪ EN/IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV ▪ EN/IEC 61000-4-3 RS: 80 MHz to 1000 MHz: 20 V/m ▪ EN/IEC 61000-4-4 EFT (with optional PPM module): AC Power: 2 kV; DC Power: 1 kV; Signal: 2 kV ▪ EN/IEC 61000-4-5 Surges: AC Power: 2 kV ▪ EN/IEC 61000-4-6 CS: 10V ▪ EN/IEC 61000-4-8 PFMF: 50 Hz, 1A/m ▪ EN/IEC 61000-4-11 Voltage Dips & Voltage Interruptions: 0.5 cycles at 50 Hz
Safety	▪ IEC/EN 62368-1

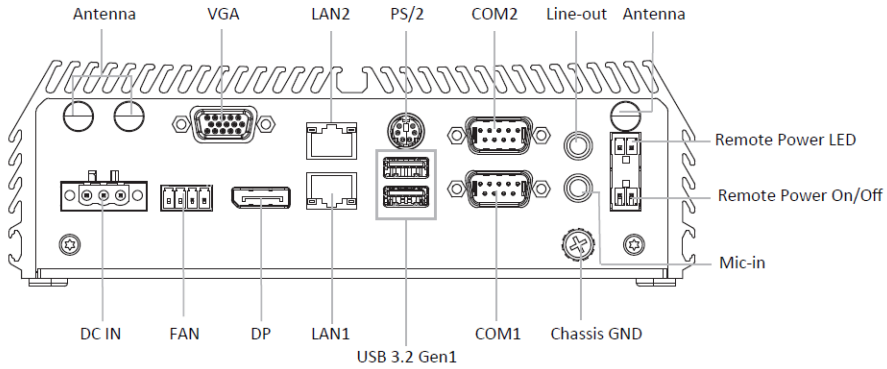
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External Layout

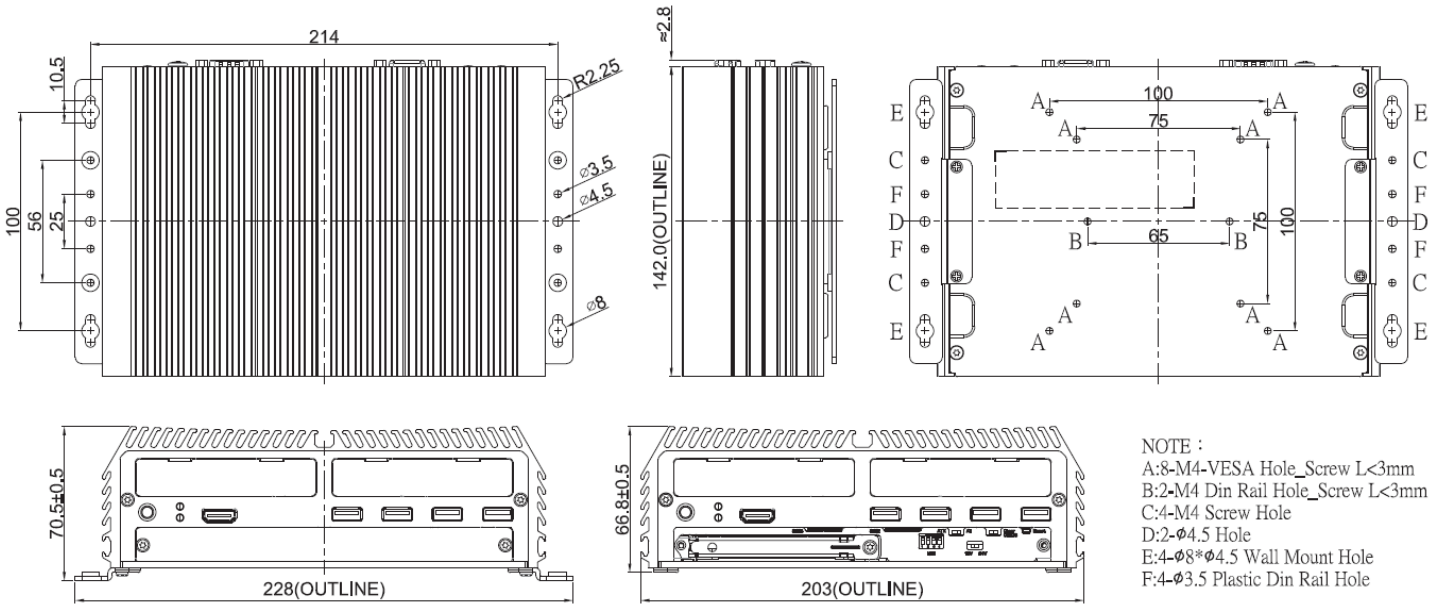
Front



Rear



Dimensions



NOTE：
A:8-M4-VESA Hole_Screw L<3mm
B:2-M4 Din Rail Hole_Screw L<3mm
C:4-M4 Screw Hole
D:2-Φ4.5 Hole
E:4-Φ8*Φ4.5 Wall Mount Hole
F:4-Φ3.5 Plastic Din Rail Hole

Unit: mm

Ordering Information

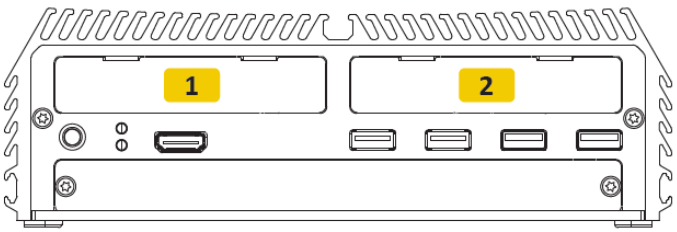
Available Models

Model No.	Description
DI-1100-i3-R10	8th Generation Intel Core i3-8145UE High Performance, Compact and Modular Rugged Embedded Computer
DI-1100-i5-R10	8th Generation Intel Core i5-8365UE High Performance, Compact and Modular Rugged Embedded Computer
DI-1100-i7-R10	8th Generation Intel Core i7-8665UE High Performance, Compact and Modular Rugged Embedded Computer

Package Checklist

▪ DI-1100 Embedded System x1	▪ Heatsink Pack x1
▪ Wall Mount Kit x1	▪ Screw Pack x1
▪ Remote Function Terminal Block Connector x2	▪ Power Terminal Block Connector x1
▪ Fan Terminal Block Connector x1	

Optional I/O Modules



Model No.	Description	1	2
CMI-LAN01-R12 / UB1512-R11 	CMI Module with 4x Intel I210 GbE LAN, RJ45 Port / 1x Universal Bracket with 4x RJ45 Cutout	--	V
CMI-M12LAN01-R12 / UB1510-R11 	CMI Module with M12 A-Coded Connector, 4x Intel I210 GbE LAN Ports/ 1x Universal Bracket with 4x M12 Cutout	--	V
CMI-XM12LAN01-R10 / UB1510-R11 	CMI Module with M12 X-Coded Connector, 4x Intel I210 GbE LAN Ports/ 1x Universal Bracket with 4x M12 Cutout	--	V
CMI-2P5GLAN01-R10 / UB1512-R11 	CMI Module with 4x Intel 2.5GbE LAN, RJ45 Port / 1x Universal Bracket with 4x RJ45 Cutout	--	V
CMI-10GLAN04-R10/UB1528-R11 	CMI Module with 2x Intel X550 10GbE LAN, RJ45 Port / 1x Universal Bracket with 2x RJ45 Cutout	--	V
CMI-10GXM12LAN01-R10/UB1537-R10 	CMI Module with 2x Intel 10GbE LAN, M12 X-Coded Connector / Universal Bracket with 2x M12 X-coded Cutout	--	V

CMI-CAN01-R10/UB1538-R10 	CMI Module with 2x CAN FD Ports / Universal Bracket with 2x DB9 and 1× Switch Cutout for CMI-CAN Expansion	--	V
CMI-COM05-R10/UB1503-R11 	CMI Module with 2x RS232/422/485 Ports (Support 5V/12V) / 1x Universal Bracket with 2x DB9 Cutout	V	--
CMI-DIO05-R10/UB1518-R10 	CMI Module with 16DIO (8in 8out) / 1x Universal Bracket with DIO Cutout	V	--
MEC-LAN-M102-30/UB1511-R11 	Mini-PCIe Module with 2x LAN Ports, 2x 30cm cable / 1x Universal Bracket with 2x RJ45 Cutout	V	V
MEC-COM-M212-TDB9/UB1503-R11 	Mini-PCIe Module with 2x RS-232 Serial Ports, 1x Thin DB9 Cable / 1x Universal Bracket with 2x DB9 Cutout	V	V

V : Compatible

Optional Function Modules

Model No.	Description
CFM-PoE06-R10	CFM Module with PoE Function, Individual Port 25.5W
CFM-IGN102	CFM Module with Power Ignition Sensing Function, 12V/24V Selectable

Optional Accessories

Model No.	Description
DINRAIL-R10	Diamond series DIN-RAIL Mount Kit
SIDE01	SIDE Mount Kit
FAN-EX103	External Fan with 4pin Terminal Block Plug and Mounting Bracket, Support Smart Fan (*External fan must be installed when using CFM-PoE module)
GST60A12-CIN1	Adapter AC/DC 12V 5A 60W with 3pin Terminal Block Plug and Tubes, Level VI
GST120A24-CIN	Adapter AC/DC 24V 5A 120W with 3pin Terminal Block Plug and Tubes, Level VI
GST220A24-CIN	Adapter AC/DC 24V 9.2A 220W with 3pin Terminal Block Plug and Tubes, Level VI
RSD-200D-24	Railway Single Output DC-DC Converter 200W / DC 24V
PPM-I180-03-R10	180W Power Protection Module for DI-1100 Series

cincoze™

Delivering end-to-end, like no one else.
Bring us your challenge & experience the difference.

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