

## DC-1000

Intel® Atom™ D525 Compact Size Fanless Computer and 2x Mini-PCIe Expansion



### Key Features

- Onboard Intel® Atom™ D525 processor, 1.8GHz
- 1x DDR3 SO-DIMM max. up to 2GB
- Dual Independent Display from 1x DVI-I to 1x VGA / 1x DVI-D (w/ optional split cable)
- 2x Intel® GbE port, support Wake-on-LAN and PXE
- 4x USB 2.0
- 4x RS232 port with 5V/12V power
- 4x Isolated DI, 4x Isolated DO
- 1x 2.5" SATA SSD/HDD bay, 1x mSATA shared by Mini-PCIe socket, 1x CF card and 1x SIM card socket
- 12V DC power input, support AT/ATX Mode
- 2x Mini-PCIe Slot for Wi-Fi, GSM, or I/O Expansion
- Universal I/O bracket for Mini-PCIe Expansion

### Overview

DC-1000 is a compact size (185mm (W) x 131mm (D) x 54mm (H)) system designed with onboard Intel® Atom™ D525 processor, 1.8GHz, Intel® ICH8M chipset, rich I/O, and an unique expansion capability.

With features including completely cable-less designed, special heat dissipation, anti-vibration, and industrial components selection, DC-1000 is a ruggedized system that can operate in a harsh environment.

A build in voltage protection, reliable DC power input, and reverse power protection make DC-1000 a safety system for industrial applications.

### Specifications

#### Processor System

- Onboard Intel® Atom™ Processor D525 Dual Core, 1.8 GHz with AMI 16Mbit SPI BIOS
- Intel® ICH8M chipsets

#### Memory

- 1x 204-Pin SO-DIMM DDR3 800MHz (un-buffered and non-ECC), max. up to 2GB

#### Display

- Dual Display
- 1x DVI-D and 1x VGA (w/ Optional Split Cable)

#### Expansion

- 2x Full-size Mini PCIe Socket for Wi-Fi / GSM / Expansion Module
- 1x Universal I/O Bracket

#### Ethernet

- 2x Intel® 82583V GbE LAN Port, Support Wake-on-LAN and PXE

#### Audio

- Codec: Realtek ALC888S
- 1x Mic-in and 1x Speak-out

#### Watchdog Timer

- Software Programmable Supports 1~255 sec. System Reset

#### Storage

- 1x 2.5" SATA SSD/HDD Bay
- 1x Internal mSATA Slot (Shared by Mini-PCIe socket)
- 1x External CompactFlash Socket
- 1x External SIM Card Socket

#### I/O Ports

- 4x USB 2.0 Port
- 1x PS/2 Port
- 4x DB9 for COM1~4, Support RS232 with Auto Flow Control
- 2x Antenna Hole
- 1x Power Switch
- 1x AT/ATX Switch

#### Digital Input & Output

- 4x Digital Input (Source Type)
  - Input Voltage (Dry Contact):
    - Logic 0: Close to GND
    - Logic 1: Open
  - Input Voltage:
    - Logic 0: 3V max.
    - Logic 1: 5V min. (DI to COM-)
- 4x Digital Output
  - Supply Voltage: 5~30VDC
  - Sink Current: 200 mA Max. Per Channel

**Power**

- Support AT, ATX Mode
- 1x 3-pin Terminal Block Connector with 12V DC Power Input
- 1x Optional AC/DC 12V/5A, 60W Power Adapter

**Environment**

- Operating Temperature: Ambient with Air Flow: -20°C to 60°C [with Industrial Grade Peripherals]
- Storage Temperature: -20°C to 80°C
- Relative Humidity: 10%-95% (non-condensing)

**Physical**

- Dimension (W x D x H): 185 x 131 x 54 mm
- Weight: 1.58 kg
- Construction: Extruded Aluminum with Heavy Duty Metal
- Mounting: Wall, Optional Side/VESA/DIN-Rail Mounting

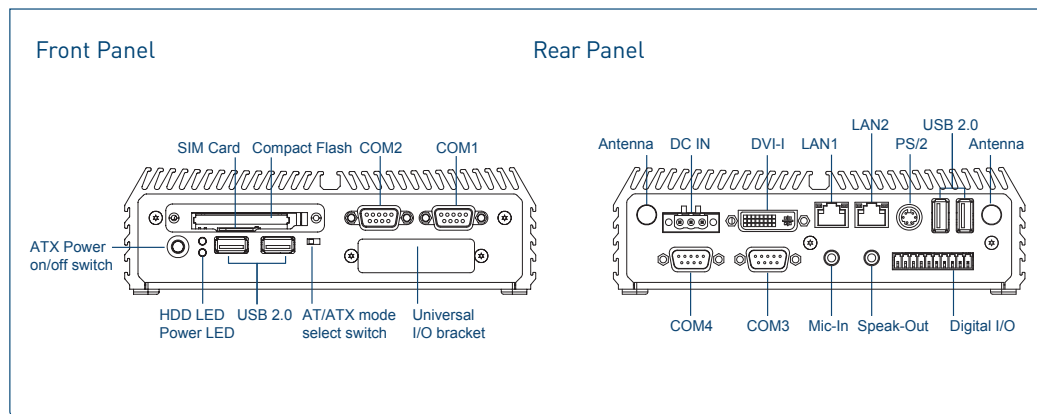
**Operating System**

- Windows® XP
- Windows® XP Embedded
- Windows® 7

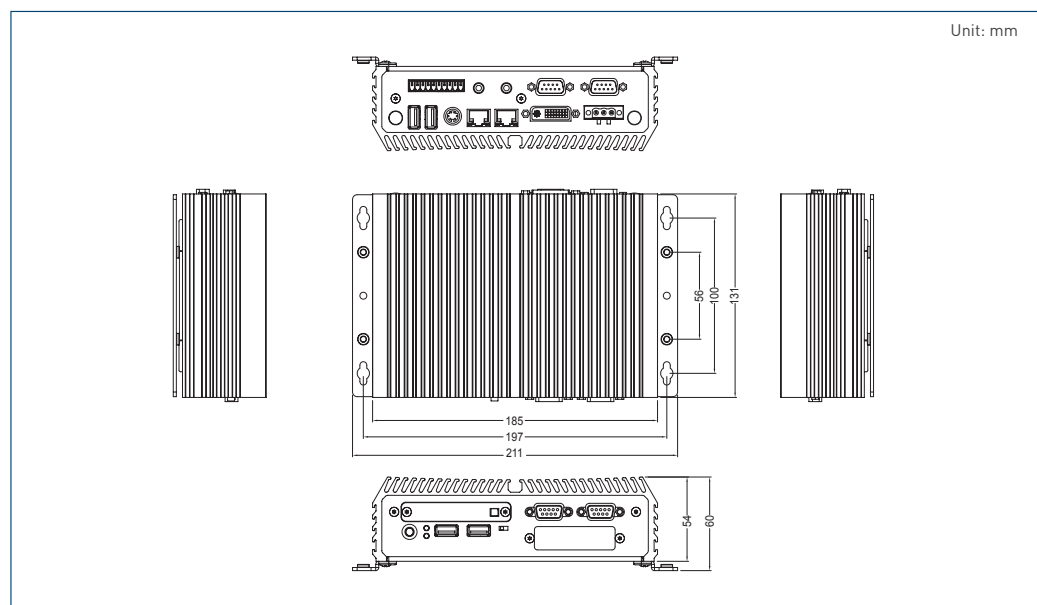
**Certification**

- CE
- FCC Class A

»» External I/O Mechanical Layout



»» Dimensions



Compact Size Fanless Computer | DC-1000 Series

»» Ordering Information

Available Models

Model No.	Product Description
<b>DC-1000</b>	Intel® Atom™ D525 Compact Size Fanless Computer and 2x Mini-PCIe Expansion

Package Checklist

- DC-1000 Embedded System x 1
- Utility DVD Driver x 1
- DIO Terminal Block Connector (Female) x 1
- Power Terminal Block Connector (Female) x 1
- DVI-I to VGA Adapter x 1
- Screw Pack x 1
- Wall Mount Kit x 1

Optional Accessories

Model No.	Description
GSM60A12-CIN	Adapter AC/DC 12V 5A 60W with 3pin Terminal Block Plug 5.0mm Pitch, GSM60A12-P1J
SL2-SL3	US 2 heads power cord, US B type to IEC C13, SVT 18AWG/3C Black 1.8M SL-2+SL-3
SL6-SL3	EU 2 heads power cord, EU G type to IEC C13, H05VV-F 0.75mm2/3G Black 1.8M SL-6+SL-3
QP026-SL3	UK 2 heads power cord, UK I type to IEC C13, H05VV-F 0.75mm2/3G Black 1.8M QP026+SL-3
VESA-DC	DC series VESA Mount Kit
SIDE-DC	DC series SIDE Mount Kit
DINRAIL	Diamond series DIN-RAIL Mount Kit
59381560000E	MINI-DIN(M) [PS/2 KB+MS] TO MINI-DIN(F) [PS/2 KB]+MINI-DIN(F) [PS/2 MS] L:10CM, 59381560000E
N0307-140507-01	DVI-I(M) TO DVI-D(F) + VGA(F) Cable, L=200mm, N0307-140507-01

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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