

# DS-085

## Computer

**ADVANTECH**

*Enabling an Intelligent Planet*

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Advantech warrants to you, the original purchaser, that each of its products will be free from defects in materials and workmanship for two years from the date of purchase.

This warranty does not apply to any products which have been repaired or altered by persons other than repair personnel authorized by Advantech, or which have been subject to misuse, abuse, accident or improper installation. Advantech assumes no liability under the terms of this warranty as a consequence of such events.

Because of Advantech's high quality-control standards and rigorous testing, most of our customers never need to use our repair service. If an Advantech product is defective, it will be repaired or replaced at no charge during the warranty period. For outof-warranty repairs, you will be billed according to the cost of replacement materials, service time and freight. Please consult your dealer for more details.

If you think you have a defective product, follow these steps:

- Collect all the information about the problem encountered. (For example, CPU speed, Advantech products used, other hardware and software used, etc.) Note anything abnormal and list any onscreen messages you get when the problem occurs.
- Call your dealer and describe the problem. Please have your manual, product, and any helpful information readily available.
- If your product is diagnosed as defective, obtain an RMA (return merchandise authorization) number from your dealer. This allows us to process your return more quickly.
- Carefully pack the defective product, a fully-completed Repair and Replacement Order Card and a photocopy of the proof of purchase date (such as your sales receipt) in a shippable container. A product returned without proof of the purchase date is not eligible for warranty service.
- Write the RMA number visibly on the outside of the package and ship it prepaid to your dealer.

# Declaration of Conformity

## – FCC Class B

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## Technical Support and Assistance

1. Visit the Advantech website at [www.advantech.com/support](http://www.advantech.com/support) where you can find the latest information about the product.
2. Contact your distributor, sales representative, or Advantech's customer service center for technical support if you need additional assistance. Please have the following information ready before you call:
  - ◆ Product name and serial number
  - ◆ Description of your peripheral attachments
  - ◆ Description of your software (operating system, version, application software, etc.)
  - ◆ A complete description of the problem
  - ◆ The exact wording of any error messages

## Warnings, Cautions and Notes



**Warning!** Warnings indicate conditions, which if not observed, can cause personal injury!



**Caution!** Cautions are included to help you avoid damaging hardware or losing data. e.g. There is a danger of a new battery exploding if it is incorrectly installed. Do not attempt to recharge, force open, or heat the battery. Replace the battery only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.



**Note!** Notes provide optional additional information.



The equipment is not suitable for use in locations where children are likely to be present.



**CAUTION:** To avoid risk of electric shock, this equipment must only be connected to supply mains with protective earth.



**restricted access area**

area accessible only to skilled persons and instructed persons with the proper authorization

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## Avertissements, mises en garde et notes



**Attention!** Les avertissements indiquent des conditions qui, si elles ne sont pas observées, peuvent causer des blessures!



**Mise en garde!** Des précautions sont incluses pour vous aider à éviter d'endommager le matériel ou à perdre des données. par exemple. Une pile neuve risque d'exploser si elle n'est pas installée correctement. N'essayez pas de recharger, d'ouvrir de force ou de chauffer la batterie. Remplacez la pile uniquement par le même type ou un type équivalent recommandé par le fabricant. Jetez les piles usagées conformément aux instructions du fabricant.



**Remarque!** Les notes fournissent des informations supplémentaires facultatives.



**L'équipement n'est pas adapté à une utilisation dans des endroits où des enfants sont susceptibles d'être présents.**



**ATTENTION:** pour éviter tout risque d'électrocution, cet équipement doit être connecté uniquement à une alimentation secteur avec mise à la terre de protection



**zone d'accès restreint**

**zone accessible uniquement aux personnes qualifiées et autorisation instruite**



# Safety Instructions

1. Read these safety instructions carefully.
2. Keep this User Manual for later reference.
3. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
4. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
5. Keep this equipment away from humidity.
6. Put this equipment on a reliable surface during installation. Dropping it or letting it fall may cause damage.
7. The openings on the enclosure are for air convection. Protect the equipment from overheating. **DO NOT COVER THE OPENINGS.**
8. By means of a power cord connected to a socket-outlet with earthing connection.
9. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
10. All cautions and warnings on the equipment should be noted.
11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
12. Never pour any liquid into an opening. This may cause fire or electrical shock.
13. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel (skilled person).
14. If one of the following situations arises, get the equipment checked by service personnel:
  - The power cord or plug is damaged
  - Liquid has penetrated the equipment.
  - The equipment has been exposed to moisture.
  - The equipment does not work well, or you cannot get it to work according to the user's manual.
  - The equipment has been dropped and damaged.
  - The equipment has obvious signs of breakage.
15. **DO NOT LEAVE THIS EQUIPMENT IN AN ENVIRONMENT WHERE THE STORAGE TEMPERATURE MAY GO BELOW -20° C (-4° F) OR ABOVE 60° C (140° F). THIS COULD DAMAGE THE EQUIPMENT. THE EQUIPMENT SHOULD BE IN A CONTROLLED ENVIRONMENT.**
16. **CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER, DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.**
17. The sound pressure level at the operator's position according to IEC 704-1:1982 is no more than 70 dB (A).

18. RESTRICTED ACCESS AREA: The equipment should only be installed in a Restricted Access Area.
19. DISCLAIMER: This set of instructions is given according to IEC 704-1. Advantech disclaims all responsibility for the accuracy of any statements contained herein.
20. The product is intended to be supplied by an UL listed power supply suitable for use at minimum Tma 40 degree C whose output is rated: 19Vdc, 3.42A min. If need further assistance, please contact Advantech for further information.

## Consignes de sécurité

1. Lisez attentivement ces instructions de sécurité.
2. Conservez ce manuel de l'utilisateur pour référence ultérieure.
3. Débranchez cet appareil de toute prise secteur avant le nettoyage. Utilisez un chiffon humide. N'utilisez pas de détergents liquides ou en aérosol pour le nettoyage.
4. Pour les équipements enfichables, la prise de courant doit être située à proximité de l'équipement et doit être facilement accessible.
5. Gardez cet équipement à l'abri de l'humidité.
6. Placez cet équipement sur une surface fiable lors de l'installation. Le laisser tomber ou le laisser tomber peut causer des dommages.
7. Les ouvertures sur le boîtier sont destinées à la convection de l'air. Protégez l'équipement de la surchauffe. **NE COUVREZ PAS LES OUVERTURES.**
8. Au moyen d'un cordon d'alimentation connecté à une prise de courant avec mise à la terre.
9. Positionnez le cordon d'alimentation de sorte que personne ne puisse marcher dessus. Ne placez rien sur le cordon d'alimentation.
10. Tous les avertissements et mises en garde sur l'équipement doivent être notés.
11. Si l'équipement n'est pas utilisé pendant une longue période, débranchez-le de la source d'alimentation pour éviter tout dommage dû à une surtension transitoire.
12. Ne jamais verser de liquide dans une ouverture. Cela pourrait provoquer un incendie ou un choc électrique.
13. Ne jamais ouvrir l'équipement. Pour des raisons de sécurité, l'équipement ne doit être ouvert que par du personnel qualifié. (personne qualifiée).
14. Si l'une des situations suivantes se produit, faites vérifier l'équipement par le personnel de service:
  1. Le cordon d'alimentation ou la fiche est endommagé
  2. Un liquide a pénétré dans l'équipement.
  3. L'équipement a été exposé à l'humidité.
  4. L'équipement ne fonctionne pas bien ou vous ne pouvez pas le faire fonctionner conformément au manuel d'utilisation.
  5. L'équipement est tombé et a été endommagé.
  6. L'équipement présente des signes évidents de rupture.
15. **NE PAS LAISSER CET ÉQUIPEMENT DANS UN ENVIRONNEMENT O LA TEMPÉRATURE DE STOCKAGE POURRAIT ÊTRE INFÉRIEURE À -20 ° C (-4 ° F) OU SUPÉRIEURE À 60 ° C (140 ° F). CELA POURRAIT ENDOMMAGER L'ÉQUIPEMENT. L'ÉQUIPEMENT DOIT ÊTRE DANS UN ENVIRONNEMENT CONTRÔLÉ.**
16. **ATTENTION: DANGER D'EXPLOSION EN CAS DE REMPLACEMENT INCORRECT DE LA BATTERIE. REMPLACEZ UNIQUEMENT AVEC LE MÊME TYPE OU LE TYPE ÉQUIVALENT RECOMMANDÉ PAR LE FABRICANT, DÉPOSEZ LES PILES UTILISÉES SELON LES INSTRUCTIONS DU FABRICANT.**
17. Le niveau de pression acoustique au poste de l'opérateur selon la norme CEI 704-1: 1982 n'est pas supérieur à 70 dB (A).
18. **ZONE D'ACCÈS RESTRICTED:** L'équipement ne doit être installé que dans une zone d'accès

restreint.

19. **AVERTISSEMENT:** Cet ensemble d'instructions est donné conformément à la norme CEI 704-1. Advantech décline toute responsabilité quant à l'exactitude des déclarations contenues dans ce document.
20. Le produit est destiné à être alimenté par un bloc d'alimentation homologué UL adapté à une utilisation à T<sub>ma</sub> minimum 40 degrés C dont la sortie est nominale: 19 Vcc, 3,42 A min. Si vous avez besoin d'une assistance supplémentaire, veuillez contacter Advantech pour plus d'informations.

## Packing List

**Before installation, please ensure the following items have been shipped:**

- 1 x DS-085 series player
- 1 x China RoHS Sheet
- 1 x User manual
- 1 x Mounting kit
- 1x 19V power adapter

# DS-085 Series Part Number:

DS-085SGB-T0A1U	DS-085SGB-T1A1U	DS-085SGB-U1A1U	DS-085SGB-U2A1U	DS-085SGB-U3A1U	DS-085SGB-U4A1U	DS-085SGB-U6A1U	DS-085SGB-U7A1U
DS-085SGB-T0A1E	DS-085SGB-T1A1E	DS-085SGB-U1A1E	DS-085SGB-U2A1E	DS-085SGB-U3A1E	DS-085SGB-U4A1E	DS-085SGB-U6A1E	DS-085SGB-U7A1E
DS-085SGB-T0A1R	DS-085SGB-T1A1R	DS-085SGB-U1A1R	DS-085SGB-U2A1R	DS-085SGB-U3A1R	DS-085SGB-U4A1R	DS-085SGB-U6A1R	DS-085SGB-U7A1R
DS-085SGB-T0A1S	DS-085SGB-T1A1S	DS-085SGB-U1A1S	DS-085SGB-U2A1S	DS-085SGB-U3A1S	DS-085SGB-U4A1S	DS-085SGB-U6A1S	DS-085SGB-U7A1S
DS085SGB2101-T	DS085SGB2102-T	DS085SGB2103-T	DS085SGB2104-T	DS085SGB2105-T	DS085SGB2106-T	DS085SGB2107-T	DS085SGB2108-T
DS085SGB2109-T	DS085SGB2110-T	DS085SGB2111-T	DS085SGB2112-T	DS085SGB2113-T	DS085SGB2114-T	DS085SGB2115-T	DS085SGB2116-T
DS085SGB2201-T	DS085SGB2202-T	DS085SGB2203-T	DS085SGB2204-T	DS085SGB2205-T	DS085SGB2206-T	DS085SGB2207-T	DS085SGB2208-T
DS085SGB2209-T	DS085SGB2210-T	DS085SGB2211-T	DS085SGB2212-T	DS085SGB2213-T	DS085SGB2214-T	DS085SGB2215-T	DS085SGB2216-T
DS085SGB2301-T	DS085SGB2302-T	DS085SGB2303-T	DS085SGB2304-T	DS085SGB2305-T	DS085SGB2306-T	DS085SGB2307-T	DS085SGB2308-T
DS085SGB2309-T	DS085SGB2310-T	DS085SGB2311-T	DS085SGB2312-T	DS085SGB2313-T	DS085SGB2314-T	DS085SGB2315-T	DS085SGB2316-T
DS085SGB2401-T	DS085SGB2402-T	DS085SGB2403-T	DS085SGB2404-T	DS085SGB2405-T	DS085SGB2406-T	DS085SGB2407-T	DS085SGB2408-T
DS085SGB2409-T	DS085SGB2410-T	DS085SGB2411-T	DS085SGB2412-T	DS085SGB2413-T	DS085SGB2414-T	DS085SGB2415-T	DS085SGB2416-T

DS-085LGB-U1A1U	DS-085LGB-U2A1U	DS-085LGB-U3A1U	DS-085LGB-U4A1U	DS-085LGB-U5A1U
DS-085LGB-U1A1E	DS-085LGB-U2A1E	DS-085LGB-U3A1E	DS-085LGB-U4A1E	DS-085LGB-U5A1E
DS-085LGB-U1A1R	DS-085LGB-U2A1R	DS-085LGB-U3A1R	DS-085LGB-U4A1R	DS-085LGB-U5A1R
DS-085LGB-U1A1S	DS-085LGB-U2A1S	DS-085LGB-U3A1S	DS-085LGB-U4A1S	DS-085LGB-U5A1S
DS085LGB2101-T	DS085LGB2102-T	DS085LGB2103-T	DS085LGB2104-T	DS085LGB2105-T
DS085LGB2106-T	DS085LGB2107-T	DS085LGB2108-T	DS085LGB2109-T	DS085LGB2110-T
DS085LGB2201-T	DS085LGB2202-T	DS085LGB2203-T	DS085LGB2204-T	DS085LGB2205-T
DS085LGB2206-T	DS085LGB2207-T	DS085LGB2208-T	DS085LGB2209-T	DS085LGB2210-T
DS085LGB2301-T	DS085LGB2302-T	DS085LGB2303-T	DS085LGB2304-T	DS085LGB2305-T
DS085LGB2306-T	DS085LGB2307-T	DS085LGB2308-T	DS085LGB2309-T	DS085LGB2310-T
DS085LGB2401-T	DS085LGB2402-T	DS085LGB2403-T	DS085LGB2404-T	DS085LGB2405-T
DS085LGB2406-T	DS085LGB2407-T	DS085LGB2408-T	DS085LGB2409-T	DS085LGB2410-T
DS085LGB2501-T	DS085LGB2502-T	DS085LGB2503-T	DS085LGB2504-T	DS085LGB2505-T
DS085LGB2506-T	DS085LGB2507-T	DS085LGB2508-T	DS085LGB2509-T	DS085LGB2510-T

# Chapter 1

## General Introduction

This chapter gives background information on DS-085 series

# 1.1 Introduction

DS-085 series is powered by Intel TGL UP3 processors for 4K video playback performance. DS-085 series is a media player that delivers advanced graphics performance for all your signage applications. DS-085 series has 3/4 HDMI to provide multi display outputs simultaneously. For better connectivity, it supports 2x LAN, internal 1 x M.2 2230 interface for add-on functions such as wireless network/Bluetooth fulfill different requirements. It also supports 4x USB (2.0x2, 3.0x2) in small SKU, 8x USB (2.0x6, 3.0x2) in large SKU, 1xCOM ports in small SKU, 2xCOM ports in large SKU, for system integration and applications.

## 1.2 Product Features

### 1.2.1 General

- Supports Intel TGL UP3 Celeron 6305E, i3 1115G4E, i5 1145G7E, i7 1185G7E, i5 1135G7, i7 1165G7 processors
- Supports 4 x HDMI、 2 x GbE、 4 x USB、 1 x COM (RS-232) in small SKU
- Supports 4 x HDMI、 2 x GbE、 8 x USB、 2 x COM (RS-232) in large SKU
- Supports M.2 2242 M Key for storage
- Built-in M.2 2230 E Key slot for easy expansion
- Ultra Slim Features, easy to install. Easy integration and easy maintenance

### 1.2.2 Display

- HDMI 2.0 x 4 @3840x2160@60Hz

### 1.2.3 Thermal Solution

- Fanless

## 1.3 Hardware Specifications

- **CPU:** Intel TGL UP3 Celeron 6305E, i3 1115G4E, i5 1145G7E, i7 1185G7E, i5 1135G7, i7 1165G7
- **System Chipset:** Integrated in SOC
- **Graphic chipset:** Integrated graphics built in Processor
- **BIOS** AMI uEFI 128 Mbit
- **System Memory:** 2 x 260pin DDR4 SODIMM, Up to 16GB single DIMM
- **Storage:** M.2 2242 M Key
- **Watchdog Timer:** supported by Advantech SUSIAccess
- **IO Interfaces(Small SKU)**
  - 1 x RS-232

- 4 x HDMI
- 4 x USB (2.0 x 2, 3.0 x 2)
- 1 x (Line-out/ Mic-in/Headset)
- 1 x IR Phone Jack
- **IO Interfaces(Large SKU)**
  - 2 x RS-232
  - 4 x HDMI
  - 8 x USB (2.0 x 6, 3.0 x 2)
  - 1 x (Line-out/ Mic-in/Headset)
  - 1 x IR Phone Jack
  - 1 x DIO via D-Sub 9
- **Ethernet Chipset:** 1 x Intel I219-LM & 1 x Realtek RTL8111FP
  - Speed: 100/1000 Mbps
  - Interface: 2 x RJ-45 jacks with LED
  - Standard: IEEE 802.3z/ab (1000 Base-T) 或 IEEE 802.3u 100 Base-T compliant
- **Resolution:**
  - 3840 x 2160 @ 60Hz
- **Expansion**
  - M.2 2230 E Key x 1



# 1.4 Mechanical Specification

## 1.4.1 Dimension

Small: 180 x 190 x 19mm (L x W x H)  
 Large: 210 x 178 x 40mm (L x W x H)

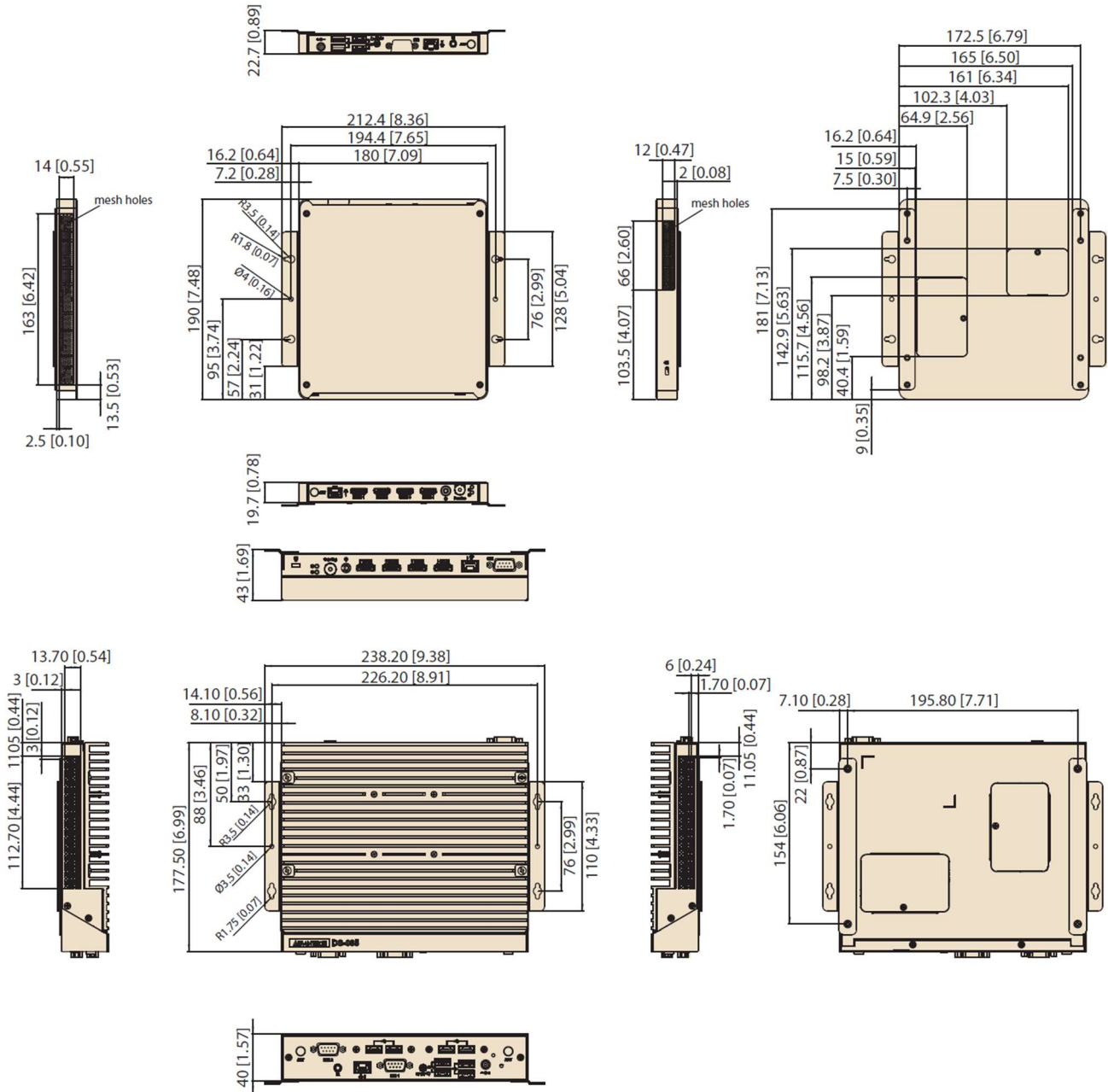


Figure 1.1 : Dimensions

## 1.4.2 Weight

Small: 0.87 kg  
 Large: 2.1 kg

## 1.5 Power Requirements

### 1.5.1 System Power

Minimum power input: DC19V, 3.42A

### 1.5.2 RTC Battery

BATTERY 3V 200mAH BR2032

## 1.6 Environmental Specifications

### 1.6.1 Operating Temperature

0° C - 40°C (32~122°F) with 0.7 m/s airflow

### 1.6.2 Relative Humidity

95% @ 40°C ( Non Condensing )

### 1.6.3 Storage Temperature

-20 ~ 60°C (-4~140°F)

### 1.6.4 Vibration Loading During Operation

0.5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis.

### 1.6.5 Shock During Vibration

20 G, IEC 60068-2-27, half sine, 11 ms duration

### 1.6.6 Safety

UL, BSMI, CCC

### 1.6.7 EMC

CE, FCC Class B, BSMI, CCC

# Chapter 2

## Hardware Installation

This chapter introduces external IO  
and the installation of DS-085 series  
Hardware

## 2.1 DS-085 Series I/O Connectors

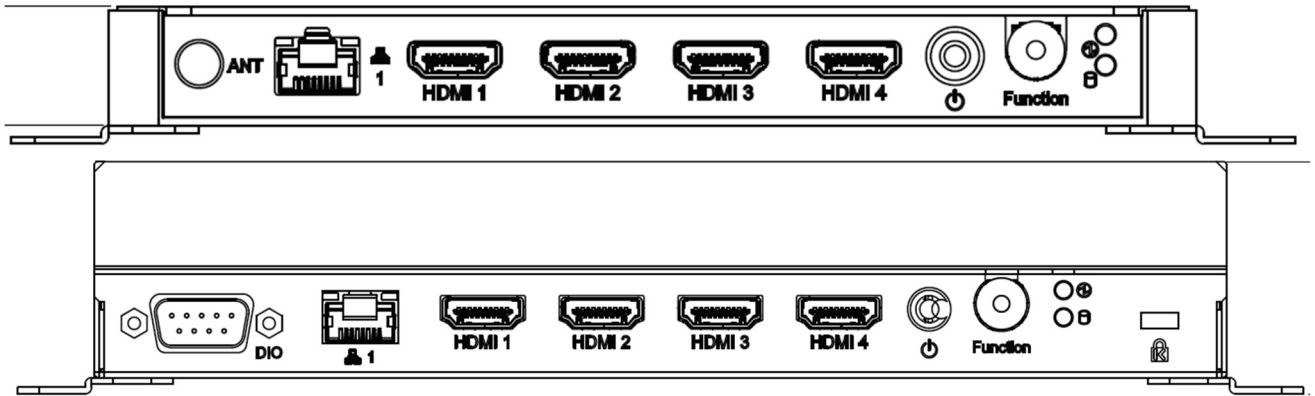


Figure 2.1: Front View

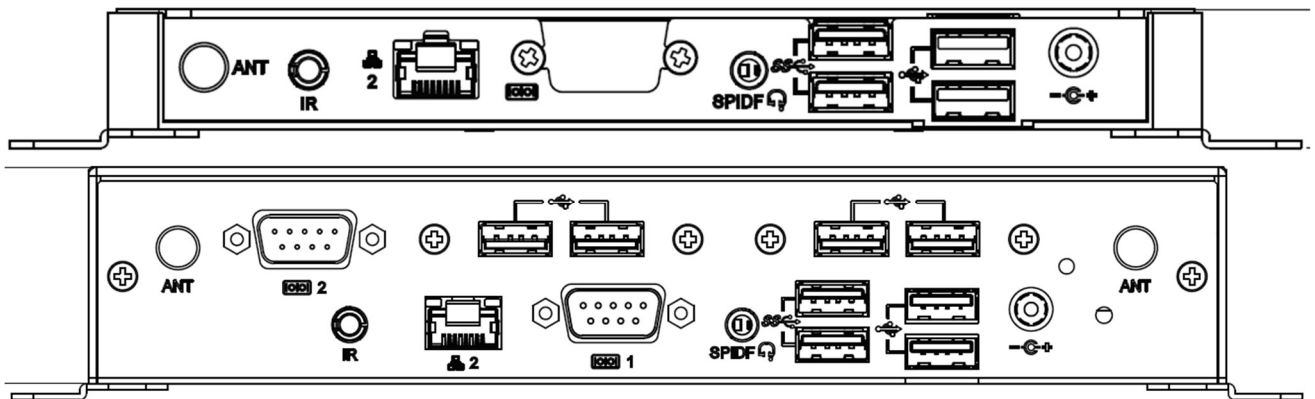


Figure 2.2: Rear View

## 2.2 DS-085 Series External I/O Connectors

### 2.2.1 Power ON/OFF Button

DS-085 Series has a power ON/OFF button on the front side. Push this button to turn the system ON and OFF. It also supports a 5 second delay soft power off.

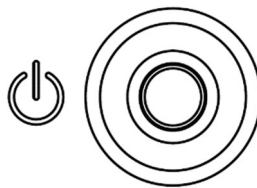


Figure 2.3: Power Button

## 2.2.2 DC Input Connector

DS-085 Series supports 19VDC DC power in.



Figure 2.4: DC Input Connector

## 2.2.3 LAN Connector

DS-085 Series provides one RJ-45 LAN interface connector, fully compliant with IEEE802.3u 10/100/1000 Base-T CSMA/CD standards. The Ethernet port provides a standard RJ-45 jack connector with LED indicators to show its Active/Link status and speed status.

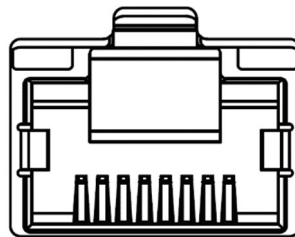


Figure 2.5: LAN Connector

LAN Port Pin Assignments	
Pin	Signal
1	MDI0+
2	MDI0-
3	MDI1+
4	MDI1-
5	GND
6	GND
7	MDI2+
8	MDI2-
9	MDI3+
10	MDI3-
11	VCC
12	ACT
13	+V3.3 & Link1000#
14	+V3.3 & Link100#

## 2.2.4 HDMI Connector

The HDMI (High-Definition Multimedia Interface) provides an all-digital audio/video interface to transmit the uncompressed audio/video signals and is HDCP compliant. Connect the HDMI audio/video device to this port. HDMI technology can support a maximum resolution of 3840 x 2160 @ 60 Hz but the actual resolution supported depends on the monitor being used.

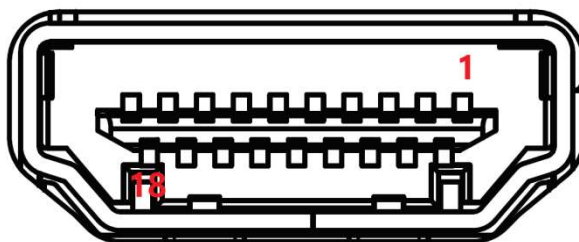


Figure 2.6: HDMI Connector

HDMI Pin Assignments	
Pin	Signal
1	TMDS Data 2+
2	TMDS Data 2 shield
3	TMDS Data 2-
4	TMDS Data 1+
5	TMDS Data 1 shield
6	TMDS Data 1-
7	TMDS Data 0+
8	TMDS Data 0 shield
9	TTMDS Data 0-
10	TMDS Clock+
11	TMDS Clock shield
12	TMDS Clock-
13	CEC
14	Reserved
15	SCL
16	SDA
17	DDC/CEC Ground
18	+5V
19	Hot Plug Detect

## 2.2.5 USB Connectors

DS-085 Series provides four USB interface connectors, which gives complete Plug & Play and hot swapping capability for up to 127 external devices. The USB interface is compliant with USB UHCI, Rev. 3.0/2.0. The USB interface supports Plug and Play, which enables you to connect or disconnect a device without turning off the system.

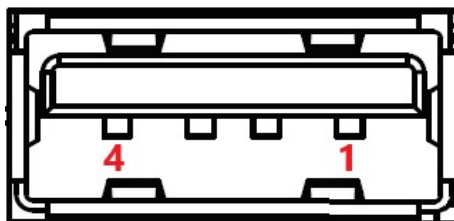


Figure 2.7: USB Connector

USB Port Pin Assignments	
Pin	Signal
1	VCC
2	USB Data-
3	USB Data+
4	GND

## 2.2.6 COM Connector

DS-085 Series provides one D-sub 9-pin connectors serial communication interface port. The ports support RS-232 communications.

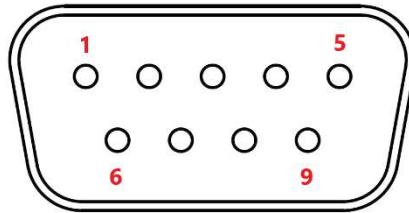


Figure 2.8: COM Connector

COM Port Pin Assignments	
Pin	Signal
1	DCD
2	RxD
3	TxD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

## 2.2.7 Audio Connectors

DS-085 Series Audio Jack can be connected to Stereo speakers, earphone or surround speakers.



Figure 2.9: Audio Connector

## 2.2.8 DIO Connector

DS-085 Series provides one D-sub 9-pin connectors. The ports support DI/DO/Power On & Off communications.

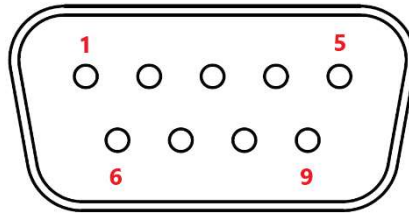


Figure 2.10: DIO Connector

COM Port Pin Assignments	
Pin	
1	GND
2	GPIO_2
3	GPIO_1
4	PS IN(Power switch)
5	
6	
7	
8	
9	

## 2.2.9 IR Phone Jack

DS-085 Series provides 3.5mm phone jack to connect with IR receiver for remote controller possibility.



Figure 2.11: IR Phone Jack



## 2.3 Hardware Installation (By Skilled Person)

### 2.3.1 Storage Installation (M.2 2242)

- (1) Remove the screw.
- (2) Install M.2 2242 module and fix screw

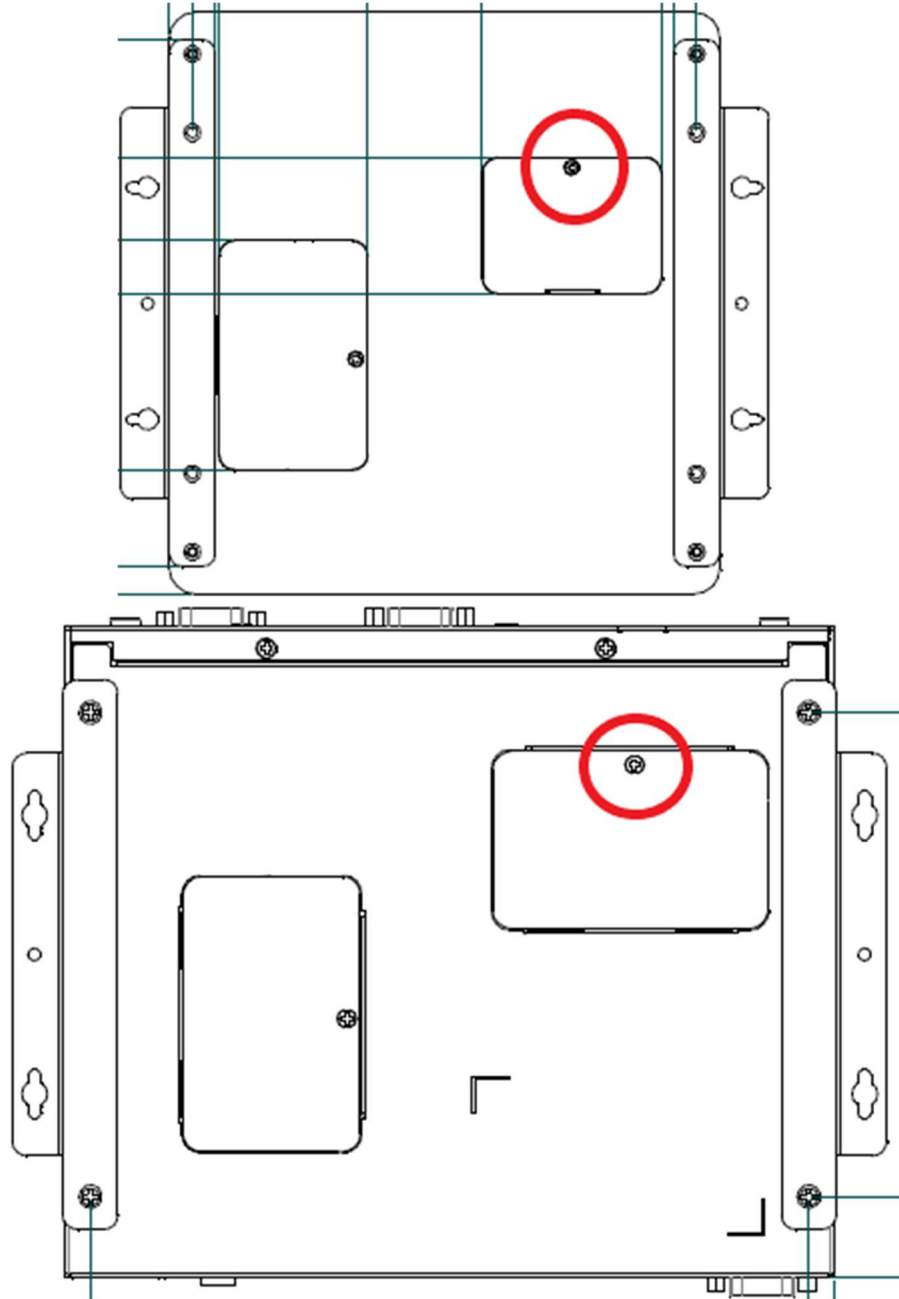


Figure 2.10: M.2 Storage Installation

## 2.3.2 Mounting Bracket Installation

Find 4 pcs of M3(L=7mm) screws to affix the mounting brackets on system bottom. (The screws and mounting brackets are both included in the system accessory box)

France

Trouvez 4 vis M3(L=7mm) pour fixer les supports de montage au bas du système. (Les vis et les supports de montage sont inclus dans la boîte d'accessoires du système)

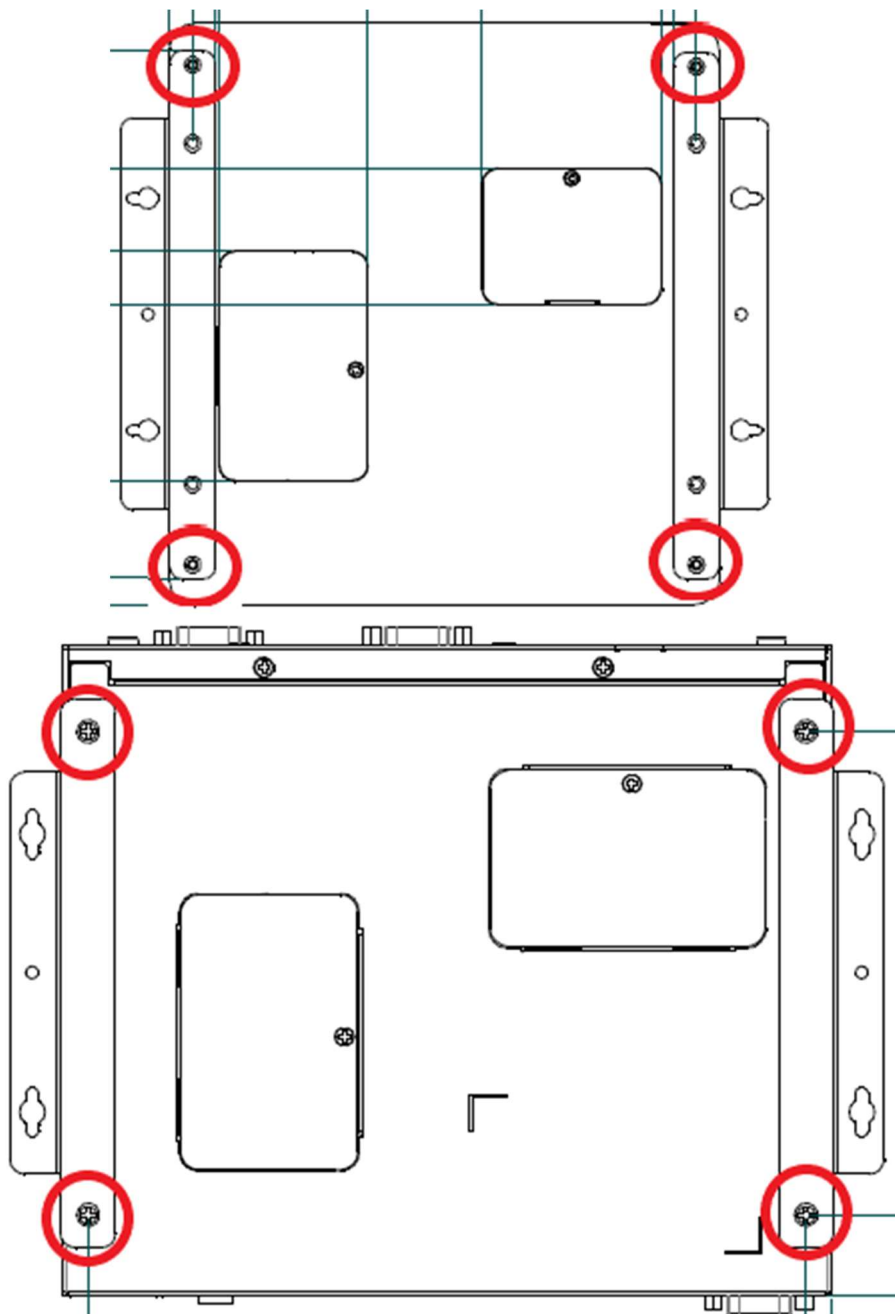


Figure 2.12: Mounting Bracket Installation

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