

# DS-085

## Ultra-slim 4 Display Digital Signage Player



### Introduction

Measuring at 19 mm thick, DS-085 is the world's slimmest digital signage player powered by Intel TGL UP3 series. This thin-and-powerful signage player is equipped with 4 x HDMI display which is capable to achieve up to 4K resolution, and delivers a premium visual experience when graphics performance really matters. Windows 10 OS, Linux are supported, and Advantech WISE-PaaS/SignageCMS, Web-based content management software, is also free on offer. We've designed the DS-085 in the smallest possible form factor, for optimized performance.

### Specifications

|                          |                        | DS-085SGB-U1A1E, Celeron 6305E,<br>DS-085SGB-U2A1E, i3 1115G4E,<br>DS-085SGB-U3A1E, i5 1145G7E | DS-085LGB-U2A1E, Celeron 6305E<br>DS-085LGB-U3A1E, i3 1115G4E<br>DS-085LGB-U4A1E, i5 1145G7E |
|--------------------------|------------------------|--|--|
| Processor                | Chipset                | Integrated in SOC  |  |
|                          | BIOS                   | AMI uEFI 128 Mbit  |  |
|                          | Technology             | DDR4 2666MHz   |  |
| Memory                   | Max. Capacity          | 32GB (16GB per SO-DIMM)  |  |
|                          | Socket                 | 2 x 260-pin SODIMM   |  |
| CPU TDP                  |                        | 15W  | 28W  |
| Thermal Solution         |                        | Fanless  |  |
| Display                  | Graphics Engine        | Intel® Iris® Xe Graphics   |  |
|                          | Output                 | HDMI 2.0 x 4   |  |
|                          | Resolution             | 3840 x 2160 @ 60Hz   |  |
| Ethernet                 | Controller             | Intel I219-LM & Realtek RTL8119I   |  |
|                          | Interface              | Gigabit LAN Controller   |  |
|                          | Connector              | 2 x RJ-45  |  |
| I/O Interfaces           | Audio                  | 1 (Line-Out/Mic-In/Headset)  |  |
|                          | LAN (RJ-45)            | 2  |  |
|                          | HDMI                   | 4  |  |
|                          | USB                    | 4 (2.0x2, 3.0x2)   |  |
|                          | Serial Port (RS-232)   | 1  |  |
|                          | PSW                    | 1 x Power on/off button  |  |
|                          | Function Button        | Reserve for OEM demand   |  |
|                          | IR Phone Jack          | Reserve for OEM demand   |  |
|                          | DIO & External Power   | N/A  |  |
|                          | LED Indicators         | 1 x Power, 1 x HDD Access  |  |
| Storage                  | M.2                    | 2242 M Key (SATA)  |  |
| WiFi & BT                | M.2                    | 2230 E Key   |  |
| Power Requirement        | Power Management       | ACPI 3.0   |  |
|                          | Input Voltage          | 19 V DC-in (ATX/AT mode)   |  |
| Watchdog Timer           | Output                 | Interrupt, system reset  |  |
|                          | Interval               | 255-level timer interval, setup by software  |  |
| Physical Characteristics | Mounting               | VESA/Desk/Wall/Din Rail  |  |
|                          | Dimensions (W x D x H) | 180 x 190 x 19mm   |  |
|                          | Weight                 | 0.87 kg  |  |
| Environment              | Operating Temperature  | 0 ~ 40 °C with 0.7 m/s airflow   |  |
|                          | Relative Humidity      | 95% @ 40 °C (non-condensing), operating  |  |
| Operating System         | Operating System       | Win10 x64  |  |
|                          | Linux                  | supported by project   |  |
| Certifications           | EMC                    | CE, FCC Class B, CCC, BSMI, RED, UKCA  |  |
|                          | Safety                 | UL, CB, CCC, BSMI, UKCA  |  |

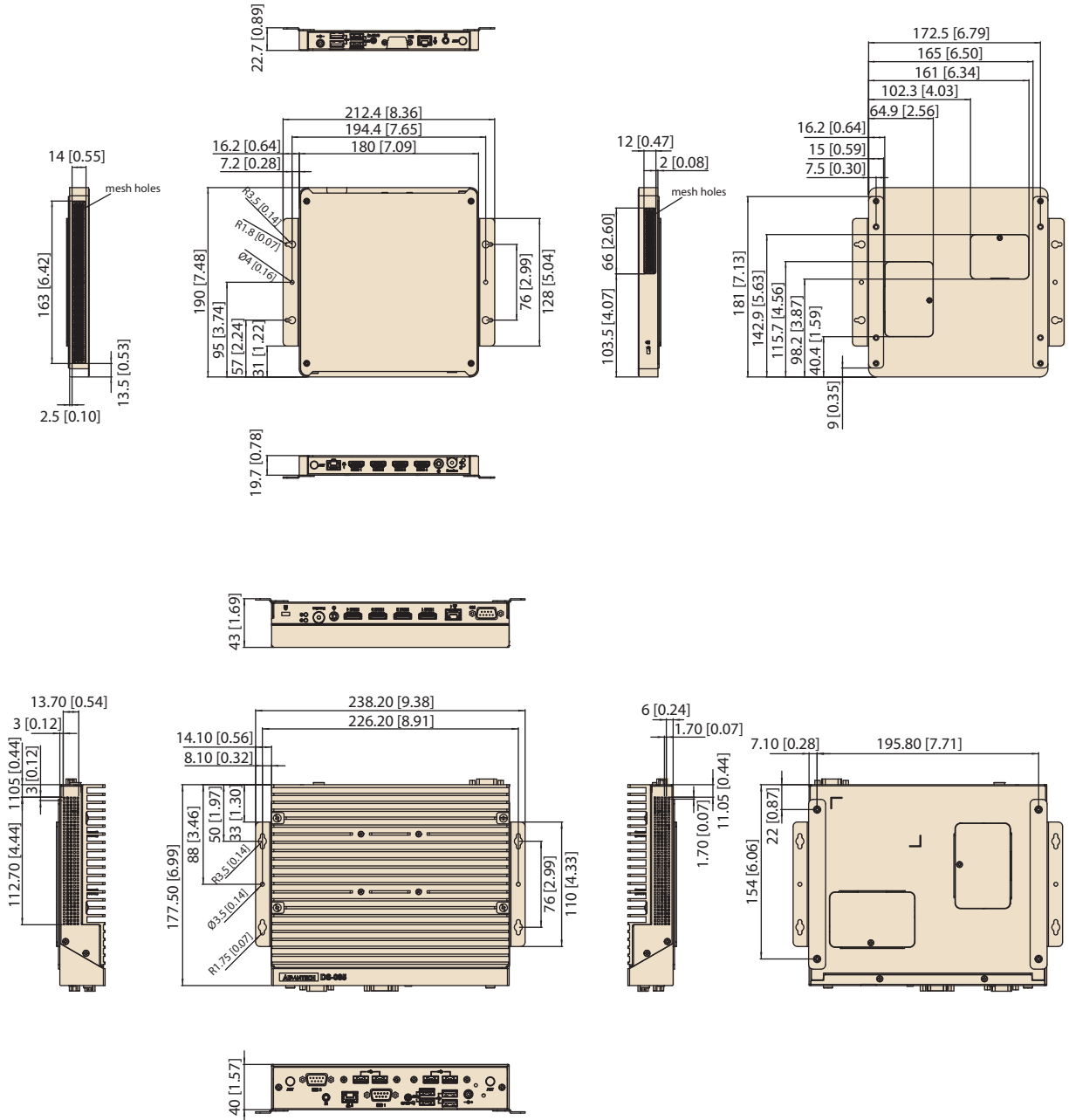
### Features

- Powered by 11th Gen Intel® Core™ i3/i5/i7 and Intel® Celeron® 6305E processors
- Powerful graphic engine - iRIS® Xe
- 19mm-thin chassis ideal for space-limited installation
- 4 HDMI display output, resolution up to 4K(3840 x 2160)
- Supports WISE-PaaS/DeviceOn and Embedded Software APIs
- Supports WebAccess/SignageCMS for intuitive signage content managing, remote monitoring and control

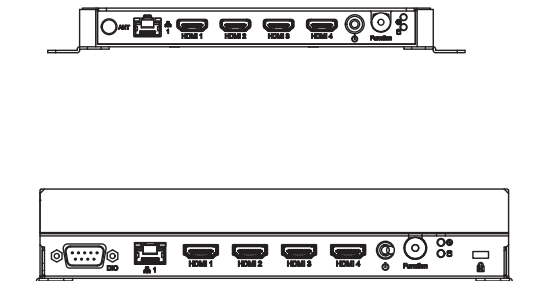
McAfee Acronis WISE-PaaS/SignageCMS WISE-DeviceOn

Dimensions

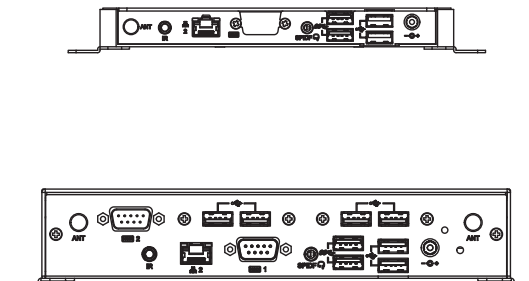
Unit: mm [inch]



## Front View



## Rear View



## Ordering Information

| Part Number     | Description                             |
|-----------------|---|
| DS-085SGB-U1A1E | DS-085, Small, Celeron 6305E, Barebones |
| DS-085SGB-U2A1E | DS-085, Small, i3 1115G4E, Barebones    |
| DS-085SGB-U3A1E | DS-085, Small, i5 1145G7E, Barebones    |
| DS-085LGB-U2A1E | DS-085 Large, Celeron 6305E, Barebones  |
| DS-085LGB-U3A1E | DS-085 Large, i3 1115G4E, Barebones     |
| DS-085LGB-U4A1E | DS-085 Large, i5 1145G7E, Barebones     |

## Packing List

| Part Number | Description                  |
|-------------|------------------------------|
| -           | 1 x DS-085                   |
| -           | 1 x 19V Power adapter        |
| -           | 1 x China RoHS               |
| -           | 2 x Wall Mount Brackets      |
| -           | 1 x User's Manual (En/TC/SC) |
| -           | 4 x Rubber foot and screws   |

## RAM & Storage

| Part Number        | Description                  |
|--------------------|------------------------------|
| SQR-SD4N4G3K2SNPCB | Memory, SQ, DDR4 4GB         |
| SQR-SD4N8G3K2SNBCB | Memory, SQ, DDR4 8GB         |
| SQR-SD4N16G3K2SNCB | Memory, SQ, DDR4 16GB        |
| SQF-S4BV1-64GDSDC  | Storage, M.2 2242, SQ, 64GB  |
| SQF-S4BV1-128GDSDC | Storage, M.2 2242, SQ, 128GB |
| SQF-S4BV1-256GDSDC | Storage, M.2 2242, SQ, 256GB |
| SQF-S4BV2-512GDSDC | Storage, M.2 2242, SQ, 512GB |

## Embedded OS

| Part Number    | Description                              |
|----------------|--|
| 20706WX9EM0034 | Win10 IoT 2019 64 Bit, for Intel Celeron |
| 20706WX9VM0026 | Win10 IoT 2019 64 Bit, for Intel i3/i5   |
| 20706WX9HM0030 | Win10 IoT 2019 64 Bit, for Intel i7      |
| 20706U20DS0018 | Ubun20.4 DS-085 64b 2004 ENU             |

## Power Cord

| Part Number   | Description                       |
|---------------|-----------------------------------|
| 1700001524    | 3-pin power cord (US)             |
| 170203183C    | 3-pin power cord (EU)             |
| 170203180A-01 | 3-pin power cord (UK)             |
| 1700008921    | 3-pin power cord with PSE (Japan) |
| 1700019146    | 3-pin power cord (CCC)            |
| 1700018553    | 3-pin power cord (AU)             |
| 1700024849-01 | 3-pin power cord (TW)             |

## Optional Items

| Part Number   | Description                            |
|---------------|--|
| AMK-V005E     | VESA mount kit (Generic for ARK-DS/DS) |
| AMK-V017E     | DS products VESA with Din Rail bracket |
| EWM-W192M202E | M.2 2230 WiFi & BT                     |