

# DS-082

## Ultra-slim 3/4 Display Digital Signage Player



### Introduction

Measuring at 19 mm thick, DS-082 is the world's slimmest digital signage player powered by AMD Ryzen V1000/R1000 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-082 in the smallest possible form factor, for optimized performance.

### Specifications

|                          |                        | DS-082GB-U0A1E                                 | DS-082GBF-U0A1E | DS-082GB-U6A1E | DS-082GBF-U6A1E |
|--------------------------|------------------------|------------------------------------------------|-----------------|----------------|-----------------|
| Processor                | Processor              | AMD V1605B                                     | AMD V1605B      | AMD R1606G     | AMD R1606G      |
|                          | Chipset                | Integrated in SOC                              |                 |                |                 |
|                          | BIOS                   | AMI uEFI 128 Mbit                              |                 |                |                 |
| Memory                   | Technology             | DDR4 2400MHz                                   |                 |                |                 |
|                          | Max. Capacity          | 32GB (16GB per SO-DIMM)                        |                 |                |                 |
|                          | Socket                 | 2 x 260-pin SODIMM                             |                 |                |                 |
| CPU TDP                  |                        | 25W                                            | 15W             | 25W            | 15W             |
| Thermal Solution         |                        | Active                                         | Fanless         | Active         | Fanless         |
| Display                  | Graphics Engine        | AMD Radeon HD graphics                         |                 |                |                 |
|                          | Output                 | HDMI 2.0 x 4                                   | HDMI 2.0 x 4    | HDMI 2.0 x 3   | HDMI 2.0 x 3    |
|                          | Resolution             | 3840 x 2160 @ 60Hz                             |                 |                |                 |
| Ethernet                 | Controller             | Realtek RTL8111G                               |                 |                |                 |
|                          | Interface              | Gigabit LAN Controller                         |                 |                |                 |
|                          | Connector              | 1 x RJ-45                                      |                 |                |                 |
| I/O Interfaces           | Audio                  | 1 (SPDIF/Line-out/ Mic-in), support Jack Sense |                 |                |                 |
|                          | LAN                    | 1 (RJ-45)                                      |                 |                |                 |
|                          | HDMI                   | 4                                              | 4               | 3              | 3               |
|                          | USB                    | USB 2.0 x 2, USB 3.0 x 2                       |                 |                |                 |
|                          | Serial Port            | 1 x RS-232                                     |                 |                |                 |
|                          | PSW                    | 1 x Power on/off button                        |                 |                |                 |
|                          | 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 19 mm                              |                 |                |                 |
|                          | Weight                 | 0.87 kg (1.92 lb)                              |                 |                |                 |
| Environment              | Operating Temperature  | 0 ~ 40° C (32 ~ 104F) 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, UKCA               |                 |                |                 |
|                          | Safety                 | UL, CB, CCC, BSMI, UKCA (No RED certification) |                 |                |                 |

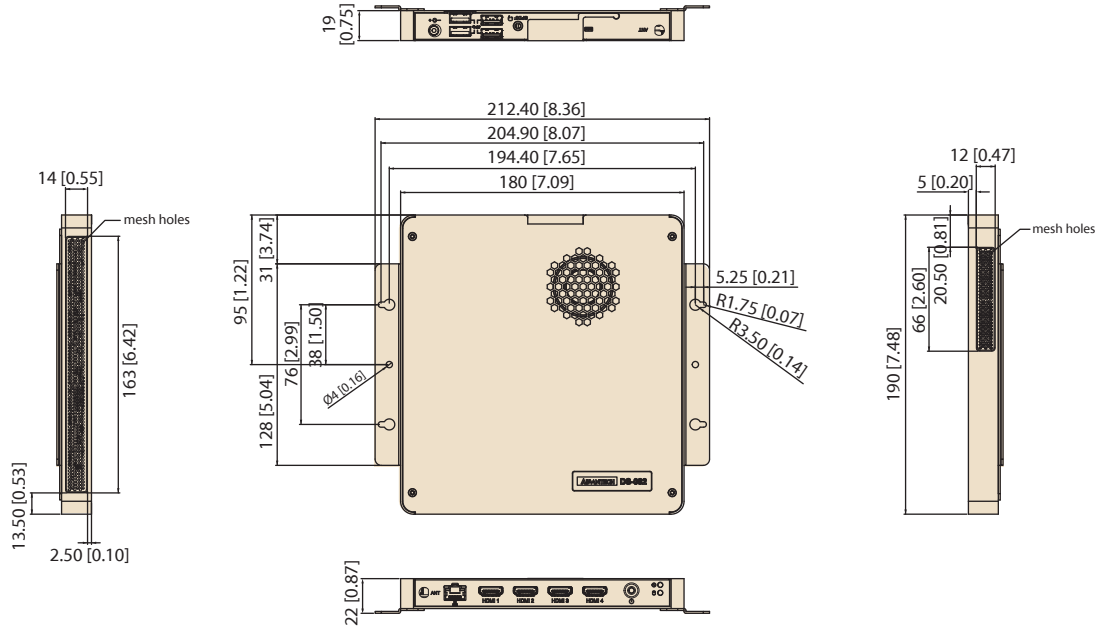
### Features

- Power by AMD Ryzen V1000/R1000 processor
- Powerful graphic engine - AMD Radeon HD graphics
- 19mm-thin chassis ideal for space-limited installation
- 3/4 HDMI display output, resolution up to 4K(3840 x 2160)
- Cable-less design for easy maintenance
- Supports WISE-PaaS/DeviceOn and Embedded Software APIs
- Supports WebAccess/SignageCMS for intuitive signage content managing, remote monitoring and control

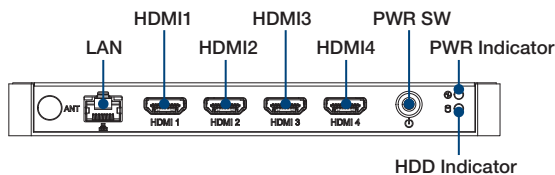
McAfee Acronis WISE-PaaS/SignageCMS WISE-DeviceOn

## Dimensions

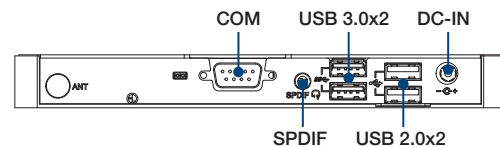
Unit: mm [inch]



## Front View



## Rear View



## Ordering Information

| Part Number     | Description                                            |
|-----------------|--------------------------------------------------------|
| DS-082GB-U0A1E  | AMD V1605B, Barebones, 4 Display, Active Cooling (25W) |
| DS-082GBF-U0A1E | AMD V1605B, Barebones, 4 Display, Fanless(15W)         |
| DS-082GB-U6A1E  | AMD R1606G, Barebones, 3 Display, Active Cooling (25W) |
| DS-082GBF-U6A1E | AMD R1606G, Barebones, 3 Display, Fanless (15W)        |
| DS-082GBF-U0A1U | AMD V1605B, Barebones, 4 Dis, Fanless(15W)             |
| DS-082GBF-U6A1U | AMD, R1606G, Barebones, 3 Dis, Fanless(15W)            |

## 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)             |

## Embedded OS

| Part Number    | Description                                  |
|----------------|----------------------------------------------|
| 20706WX1VS0119 | Win10 LTSC 21H2 Value, for AMD V1807B/V1605B |
| 20706WX1ES0119 | Win10 LTSC 21H2 Entry, for AMD R1606G        |
| 20706WL1S0033  | Win11 LTSC 24H2 Value, for AMD V1807B/V1605B |
| 20706WLE1S0033 | Win11 LTSC 24H2 Entry, for AMD R1606G        |

## Optional Items

| Part Number | Description                            |
|-------------|----------------------------------------|
| AMK-V005E   | VESA mount kit (Generic for ARK-DS/DS) |
| AMK-V017E   | DS products VESA with Din Rail bracket |

## RAM & Storage

| Part Number           | Description                  |
|-----------------------|------------------------------|
| SQR-SD4N4G3K2SNPGB x1 | Memory, DDR4 4GB             |
| SQR-SD4N4G3K2SNPGB x2 | Memory, DDR4 4+4GB           |
| SQR-SD4S8G3K2HNBG x2  | Memory, DDR4 8+8GB           |
| SQR-SD4S16G3K2HNBG x2 | Memory, DDR4 16+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 |