

# DS-780

## 6th Generation Intel® Core™ U series Fanless Signage Player with Triple Independent Display Support

NEW



### Features

- Advanced graphics engine with Intel HD 520
- Supports 4K/Ultra HD resolution by HDMI 2.0 and HEVC video decoding
- Integrated with Dual channel DDR4 2133 SO-DIMM
- Flexibility for expansion (Mini PCIe and M.2 2230/1630 E Key) and storage devices (2.5" SATA III HDD/SSD,m-SATA)
- Content management software built-in for content editing, scheduling and remote monitoring functions

Acronis WebAccess/IMM WISE-PaaS/RMM

### Introduction

Advantech DS-780 is a high performance, low power Digital Signage Player with advanced features. It is a fanless solution powered by a 6th generation Intel® Core™ U series processor. DS-780 supports 4K resolution HDMI output. DS-780 storage can be easily maintained via its slide-in chassis design. As a high performance and fanless solution, DS-780 is ideal for single to triple display applications in stores, lobbies, restaurants, FIDS, hotels and other public spaces requiring displays.

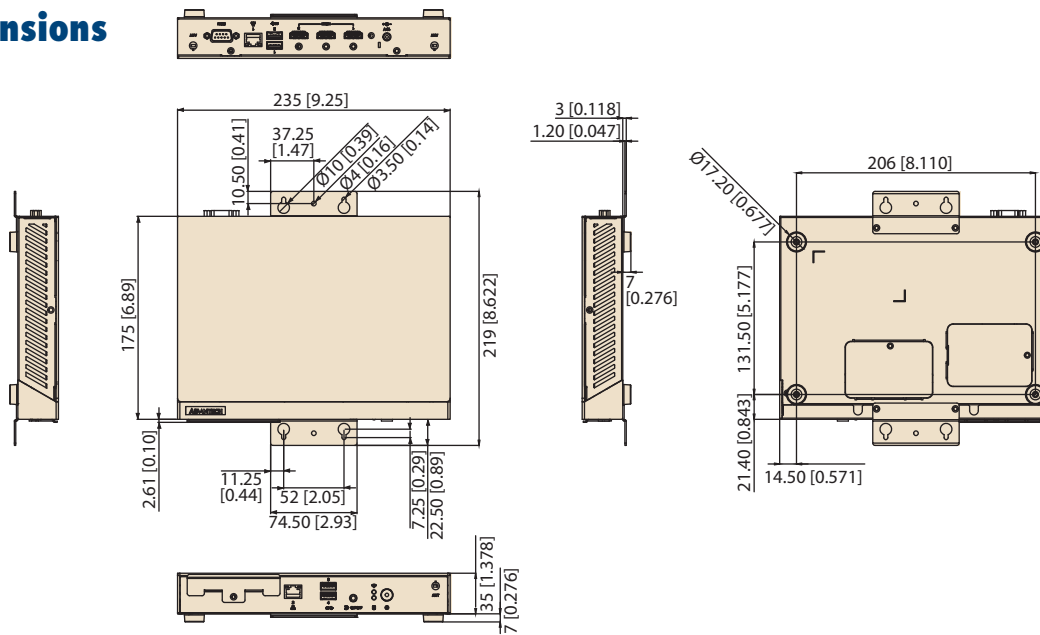
### Specifications

|                     |                               | DS-780GB-U6A1E / DS-780GB-U4A1E / DS-780GB-U3A1E                                    | DS-780GB-S9A1E        |
|---------------------|-------------------------------|---|-----------------------|
| Processor           | CPU                           | i7-6600U/ i5-6300U/ i3-6100U  | Celeron-3955U         |
|                     | BIOS                          | AMI uEFI 128 Mbit   |                       |
|                     | Chipset                       | Integrated in CPU   |                       |
| Memory              | Technology                    | DDR4 2133MHz  |                       |
|                     | Max. Capacity                 | 32GB (up to 16GB per SO-DIMM)   |                       |
|                     | Socket                        | 2 x 260-pin DDR4 SO-DIMM  |                       |
| Display             | Chipset                       | Integrated in CPU   |                       |
|                     | Graphics Engine               | Intel HD Graphics 520   | Intel HD Graphics 510 |
|                     | Graphic Memory                | Share System Memory   |                       |
|                     | Multiple Display              | Triple  |                       |
|                     | Interface                     | 3x HDMI Ports (Port 1: HDMI 2.0, Port 2: HDMI 1.4 (CEC support) **Port 3: HDMI 1.4) |                       |
| Expansion Interface | Resolution                    | True 4K (4096 x 2160 @60Hz)   |                       |
|                     | Mini PCIe                     | 1   |                       |
| Ethernet            | M.2                           | 1 (2230/1630 E Key)   |                       |
|                     | Controller                    | Intel I219 & Realtek 8111G  |                       |
|                     | Speed                         | 10/100/1000 Mbps  |                       |
| Audio               | Connector                     | 2 x RJ45  |                       |
|                     | Chipset                       | ALC892  |                       |
| Storage             | Connector                     | 1 (SPDIF/ Line-out/ Mic-in), support Jack Sense                                     |                       |
|                     | SATA                          | 1 x 2.5-inch SATA III HDD / SSD (7mm Height)  |                       |
| I/O                 | m-SATA                        | 1   |                       |
|                     | USB 3.0                       | 4   |                       |
|                     | Serial Port                   | 1 x RS232   |                       |
|                     | LAN                           | 2   |                       |
| Watchdog Timer      | SIM Socket                    | 1 (option)  |                       |
|                     | Output                        | Interrupt, system reset   |                       |
| Power Requirement   | Interval                      | Programmable by WISE-PaaS/RMM   |                       |
|                     | Power Type                    | ATX/ AT   |                       |
|                     | Power Input Voltage           | DC 19V input  |                       |
|                     | Power Consumption (Idle)      | 8.35W (Core i7-6650U, w/o expansion)  |                       |
|                     | Power Consumption (Full Load) | 23.3W (Core i7-6650U, w/o expansion)  |                       |
| Environment         | Power Adaptor                 | Input 100 ~ 240 V <sub>AC</sub> , Output 19 V <sub>DC</sub> , 65W                   |                       |
|                     | Operational Temperature       | 0 ~ 40° C (32 ~ 104° F)<br>with 0.7m/s air flow                                     |                       |
| Physical            | Operational Humidity          | 95% @ 40° C (non-condensing)  |                       |
|                     | Vibration Resistance          | 1.0 Grms, 5-500Hz, Reference IEC60068-2-64 Testing procedures                       |                       |
|                     | Weight                        | 1.5 kg (3.3 lb)   |                       |
| Operating System    | Dimensions (W x D x H)        | 235 x 175 x 35mm  |                       |
|                     | Mounting                      | VESA/Desk/Wall/Din Rail   |                       |
| APIs                | Microsoft Windows             | Win7 x64/x86, Win8.1 x64, Win10 x64   |                       |
|                     | Linux                         | By project support  |                       |
|                     | Android                       | -   |                       |
| Certifications      | SUSIAccess                    | Yes   |                       |
|                     | Others                        | Yes, McAfee, Acronis  |                       |
| Safety              | EMC                           | CE/FCC Class B, CCC, BSMI   |                       |
|                     | Safety                        | UL, CB, CCC, BSMI   |                       |

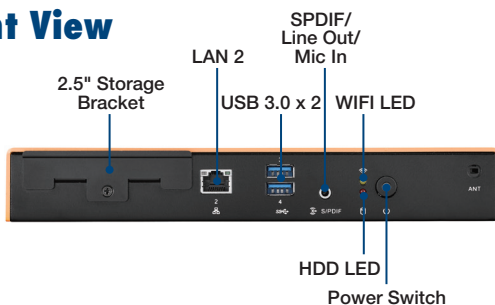
\*i7-6650U/i5-6360U is non-embedded sku and limited offering until 2017/6/30  
 \*\*Port 3:HDMI 1.4 without audio / HDCP / hot plug and no display in BIOS and DOS

## Dimensions

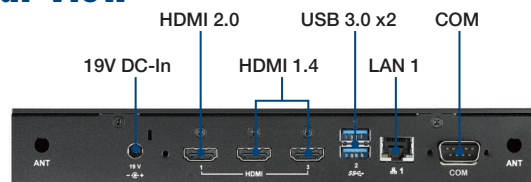
Unit: mm [inch]



## Front View



## Rear View



## Ordering Information

| Part Number    | Description                                 |
|----------------|---|
| DS-780GB-U6A1E | DS-780, Intel Skylake-U i7-6600U, Barebone  |
| DS-780GB-U4A1E | DS-780, Intel Skylake-U i5-6300U, Barebone  |
| DS-780GB-U3A1E | DS-780, Intel Skylake-U i3-6100U, Barebone  |
| DS-780GB-S9A1E | DS-780, Intel Skylake-U CLN-3955U, Barebone |

## Power Cord

| Part Number | Description              |
|-------------|--------------------------|
| 1700001524  | 3-pin power cord (US)    |
| 170203183C  | 3-pin power cord (EU)    |
| 170203180A  | 3-pin power cord (UK)    |
| 1702031836  | 3-pin power cord (AU)    |
| 1700008921  | 3-pin power cord (Japan) |
| 1700019146  | 3-pin power cord (China) |

## Packing List

| Part Number | Description                                   |
|-------------|---|
| -           | 1 x DS-780 Unit                               |
| -           | 1 x Power Adapter                             |
| -           | 1 x Bracket set for fixing power adapter plug |
| -           | 2 x Mounting Brackets                         |
| -           | 1 x User Manual                               |
| -           | 1 x Content Management Software               |
| -           | 4 x Foot rubers and screws                    |

## Mounting Kits

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

## Embedded OS Image

| Part Number | Description                                  |
|-------------|--|
| 2070014495  | Img WES7E DS-780 x64 V5.7.0 EN/JP/SC/TC      |
| 2070014788  | img WES7P DS-780 64bit 1609 Eng              |
| 2070014686  | Img WE8.1 IndPro DS-780 x64 V1.0             |
| 2070014976  | Win 10 64 bit image for DS-780 Celeron/i3/i5 |
| 2070014977  | Win 10 64 bit image for DS-780 i7            |

## Optional Items

| Part Number  | Description                                     |
|--------------|---|
| AMO-WIFI06E  | Realtek/wifi 802.11bgn/miniPCle, cable, antenna |
| AMO-HSDPA02E | U-blox/HSDPA 6band/miniPCle, cable, antenna     |