

# DS-780

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



### 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 2133MHz
- 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.

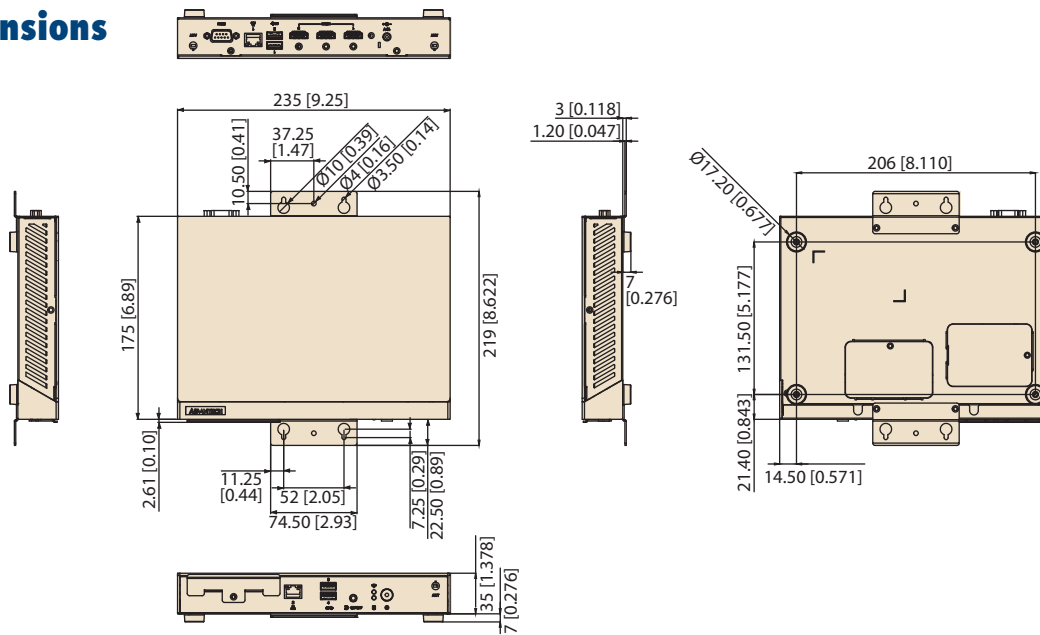
### Specifications

		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)	
	Resolution	True 4K (4096 x 2160 @60Hz)	
Expansion Interface	Mini PCIe	1	
	M.2	1 (2230/1630 E Key)	
Ethernet	Controller	Intel I219 & Realtek 8111G	
	Speed	10/100/1000 Mbps	
	Connector	2 x RJ45	
Audio	Chipset	ALC892	
	Connector	1 (SPDIF / Line-out/ Mic-in), support Jack Sense	
Storage	SATA	1 x 2.5-inch SATA III HDD / SSD (7mm Height)	
	m-SATA	1	
I/O	USB 3.0	4	
	Serial Port	1 x RS232	
	LAN	2	
	SIM Socket	1 (option)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable by WISE-PaaS/RMM	
Power Requirement	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)	
Power Adaptor	Input 100 ~ 240 V <sub>AC</sub> , Output 19 V <sub>DC</sub> , 65W		
Environment	Operational Temperature	0 ~ 40° C (32 ~ 104° F) with 0.7m/s air flow	
	Operational Humidity	95% @ 40° C (non-condensing)	
	Vibration Resistance	1.0 Grms, 5-500Hz, Reference IEC60068-2-64 Testing procedures	
Physical	Weight	1.5 kg (3.3 lb)	
	Dimensions (W x D x H)	235 x 175 x 35mm	
	Mounting	VESA/Desk/Wall/Din Rail	
Operating System	Microsoft Windows	Win7 x64/x86, Win8.1 x64, Win10 x64	
	Linux	By project support	
	Android	-	
APIs	SUSIAccess	Yes	
	Others	Yes, McAfee, Acronis	
Certifications	EMC	CE/FCC Class B, CCC, BSMI	
	Safety	UL, CB, CCC, BSMI (No RED certification)	

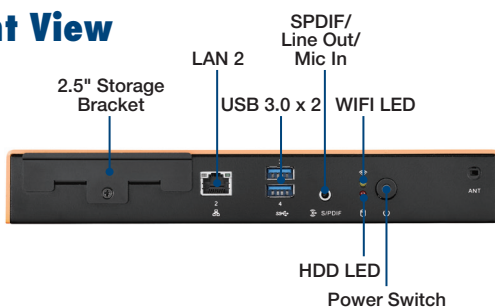
\*i7-6650U/i5-6360U is non-embedded sku and limited offering until 2017/6/30  
 \*\*Port 3:HDMI 1.4 without audio / HDCP / hot plug and no display in BIOS and DOS

## Dimensions

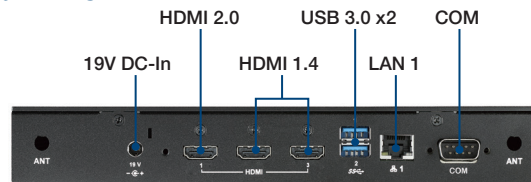
Unit: mm [inch]



## 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)
1700018553	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/miniPCIe, cable, antenna
AMO-HSDPA02E	U-blox/HSDPA 6band/miniPCIe, cable, antenna