![Chipsmall logo]

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

DS-780

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

NEW

Features

- Advanced graphics engine with Intel Iris 540 / 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 (intel) Security **WebAccess/IMM WISE-PaaS/RMM**

Windows 7   Windows 8   Windows 10   (intel) **IoT Solutions Alliance** Premier

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.
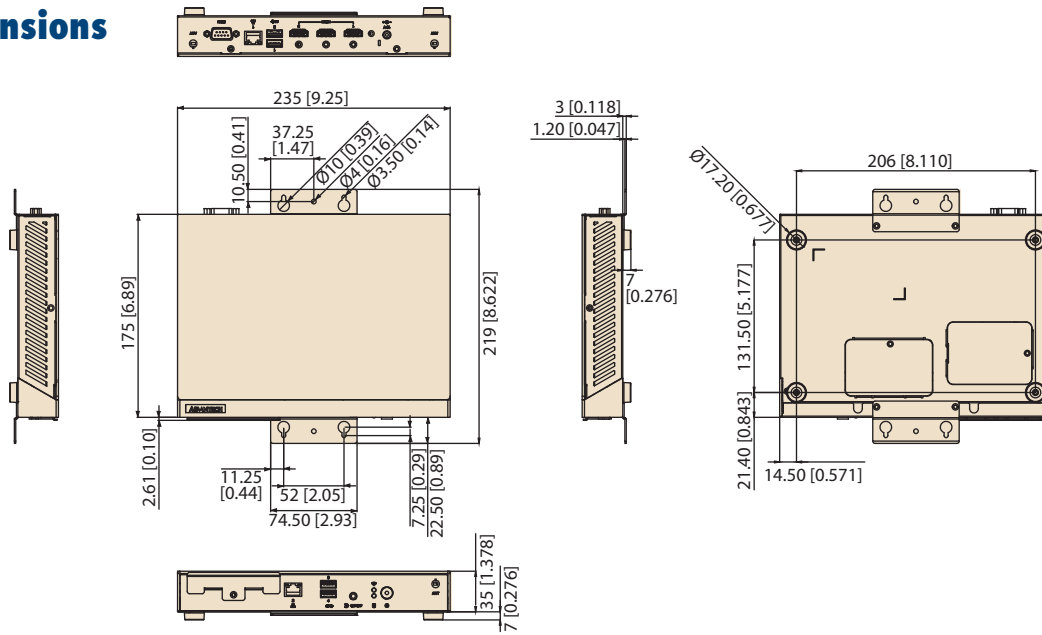
Specifications

		DS-780GB-U6A1E / DS-780GB-U4A1E / DS-780GB-U3A1E	DS-780GB-S9A1E	DS-780GB-U2A1E / DS-780GB-U0A1E
Processor	CPU	i7-6600U/ i5-6300U/ i3-6100U	Celeron-3955U	*i7-6650U/ i5-6360U
	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	Intel® Iris graphics 540
	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 Votage	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$_{AC}$, Output 19 V$_{AC}$, 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		

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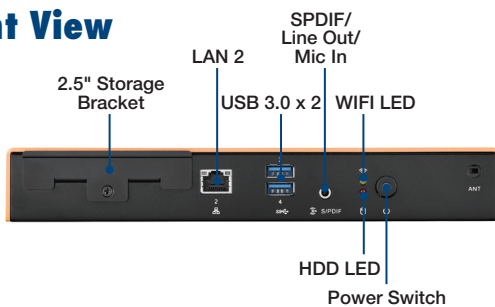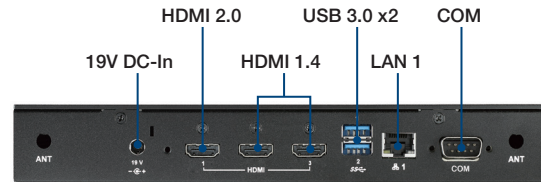**Port 3:HDMI 1.4 without audio / HDCP / hot plug and no display in BIOS and DOS

ADVANTECH   Digital Signage Player

Dimensions

Unit: mm [inch]

235 [9.25]
37.25 [1.47]
Ø10 [0.39]
Ø4 [0.16]
Ø3.50 [0.14]
10.50 [0.41]
175 [6.89]
219 [8.622]
2.61 [0.10]
11.25 [0.44]
52 [2.05]
74.50 [2.93]
7.25 [0.29]
22.50 [0.89]

3 [0.118]
1.20 [0.047]
7 [0.276]

Ø17.20 [0.677]
206 [8.110]
131.50 [5.177]
21.40 [0.843]
14.50 [0.571]

35 [1.378]
7 [0.276]

Front View

2.5" Storage Bracket
LAN 2
USB 3.0 x 2
SPDIF/ Line Out/ Mic In
WIFI LED
HDD LED
Power Switch
ANT

Rear View

HDMI 2.0
USB 3.0 x2
COM
19V DC-In
HDMI 1.4
LAN 1
ANT

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
DS-780GB-U2A1E	DS-780,Intel Skylake-U i7-6650U, Barebone
DS-780GB-U0A1E	DS-780,Intel Skylake-U i5-6360U, Barebone

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

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
2070014558	img Win10Ent DS-780 x64 V10.0.10240.0 10MUI

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)

Mounting Kits

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

Optional Items

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