

DS-580

4K Digital Signage Player with Integrated nVIDIA GT Graphics for Independent Quad Displays

NEW



Features

- Integrated NVIDIA® GeForce® GT 1030 graphics for ultra HD playback
- Powered by Intel® Atom™ Processor E3950
- Quad independent HDMI outputs
- Expandable via M.2 and miniPCle
- Reserve TPM 2.0 for security application
- Content management software built-in
- Decode for HEVC/WMV9/VP9
- Low power & fanless signage player



Acronis WISE-PaaS/SignageCMS WISE-PaaS/DeviceOn

Windows 10



Introduction

Advantech DS-580 is a Ultra HD signage player powered by an Intel® Atom™ Processor E3950 with integrated NVIDIA® GeForce® GT 1030 graphic engine for Ultra HD. This GT 1030 graphic engine's award-winning NVIDIA Pascal™ architecture, powerful graphics engine, and state-of-the-art technologies give you the performance upgrade you need to drive today's most demanding applications. DS-580 not only has four HDMI ports to support each independent display in 4K @ 30HZ playback, it can also play single video content in 4K @ 60Hz playback via the HDMI 2.0 port. With dual LAN to enable interconnectivity and Mini PCIe/M.2 E-key/TPM 2.0 for extending applications. Its storage can be easily maintained via slide-in chassis design. DS-580 is the ideal solution for multi-display applications in stores, stadiums, hotel lobbies, restaurants, and other public spaces.

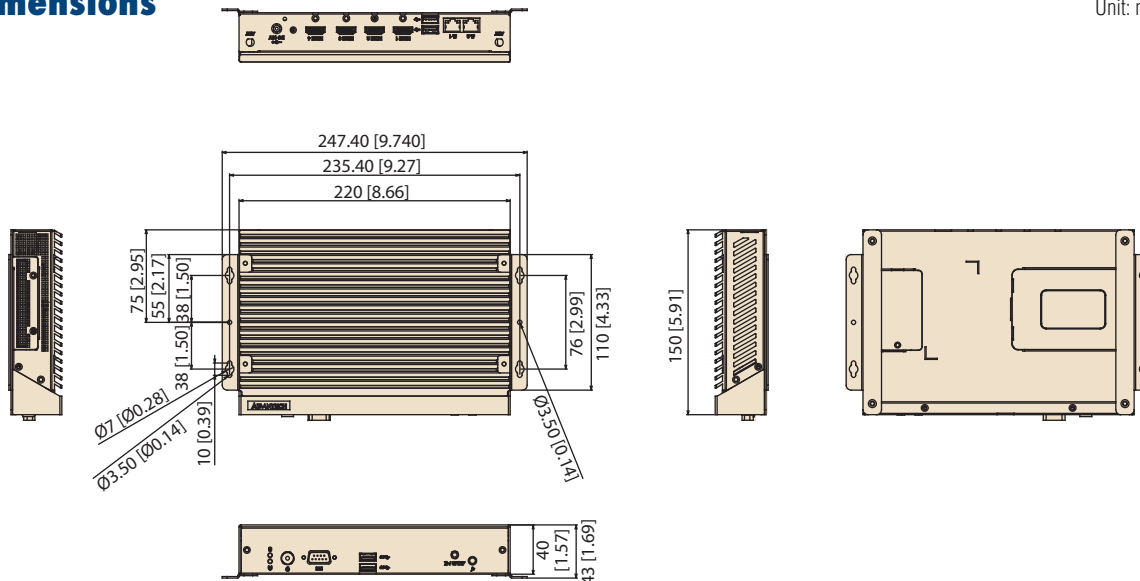
Specifications

		DS-580
Processor System	CPU	Intel® Atom™ Processor E3950
	System Chipset	Integrated in CPU
	L2 Cache	2 MB
	BIOS	AMI uEFI 64-Mbit
Memory	Technology	2 x DDR3L 204-pin DIMM**
	Max. Capacity	16 GB (up to 8 GB per SODIMM)
Graphic & Display Tech.	Graphic Engine	NVIDIA® GeForce GT 1030
	Graphic Memory	2GB GDDR5
	Resolution	HDMI 2.0: up to 3840 x 2160 @ 60Hz HDMI 1.4: up to 3840 x 2160 @ 30Hz (CEC support)
	Output	2 x HDMI 1.4, 2 x HDMI 2.0
	Multi Display	Up to 4 simultaneous outputs
Storage	Video Format	Decode for H.264,VC-1,WMV9,H.265/HEVC,VP8,VP9,JPEG/MJPEG,MPEG2(only for Yocto project Linux) Encode for H.264,MVC,WMV9,H.265/HEVC,VP8,VP9,JPEG/MJPEG
	SATA	1 x 2.5-inch SATA III HDD/SSD
Ethernet	Interface	Gigabit LAN controller
	Controller	1 x Intel I211-AT, 1 x Realtek 8111G
I/O Interface	LAN	2 (RJ-45)
	USB 2.0	2
	USB 3.0	2
	Audio	1 x audio phone jack for Mic In, 1 x SPDIF/Line Out (supports jack sensing via OS settings)
	Serial	1 x RS-232
Expansion	Mini PCIe	1 x Full Size MiniPCle support mSATA; w/SIM holder, support WWAN module (USB interface)
	M.2	* 1 x M.2 1630/2230 E-Key for wireless module
Trusted Platform Module	TPM 2.0	Option
Power Requirement	Power Consumption	Idle mode: 19 W (w/o expansion) Full mode: 27 W (w/o expansion)
	Input Voltage	19 V DC in (ATX/AT mode, default ATX)
Watchdog Timer	Output	Interrupt, system reset
	Interval	Programmable using WISE-PaaS/EdgeSense
Physical Characteristics	Mounting	Wall mount kits for LCD or plasma panels
	Dimensions (W x H x D)	220 x 40 x 150 mm
	Weight	1.7 kg
Environment	Operating Temperature	0 - 40 °C (w/ HDD), with 0.7m/s air flow 0 - 50 °C (w/ SSD) with 0.7m/s air flow
	Relative Humidity	95% @ 40° C (non-condensing)
Software Development Kit	Operating System	Supports Microsoft Windows 10 Linux By project
Certification	EMC	CE, FCC Class B, BSMI
	Safety	UL, CCC, BSMI, CB

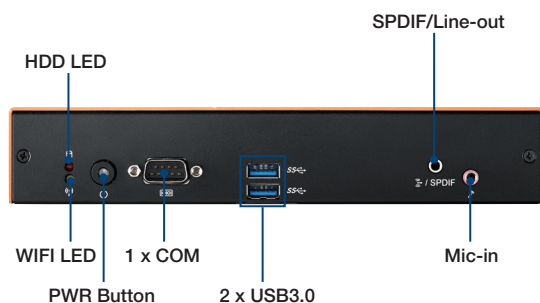
*LAN 2 and M.2 are switched by BIOS setting

Dimensions

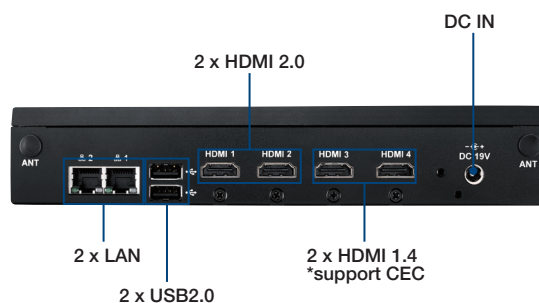
Unit: mm [inch]



Front View



Rear View



Packing List

Part Number	Description
-	1 x DS-580 unit
-	1 x Power adapter (DC 19 V/3.42A 65 W)
-	1 x Bracket set for fixing power adapter plug
-	2 x Mounting brackets
-	2 x User manual
-	1 x Content management software

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)

Ordering Information

Part Number	Description
DS-580GB-S6A1E	DS-580 E3950 with graphic, barebone

Mounting Kits

Part Number	Description
AMK-V005E	VESA mount kit (generic for ARK-DS/DS)

Embedded OS

Part Number	Description
20706WX9ES0004	img W10 19EL DS-580 64b 1809 ENU

Optional Items

Part Number	Description
EWM-W163M201E	Advantech Brand, 802.11 a/b/g/n/ac, Atheros QCA6174A-5, 2T2R, with BT4.2 (Low energy operation) (A-E key)
EWM-W160M201E	Advantech Brand, 802.11 b/g/n, Realtek RTL8188EE, 1T1R (2-antenna) (A-E Key)