

DS-580

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



Windows 10



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 miniPCIe
- Reserve TPM 2.0 for security application
- Content management software built-in
- Decode for HEVC/WMV9/VP9
- Low power & fanless signage player



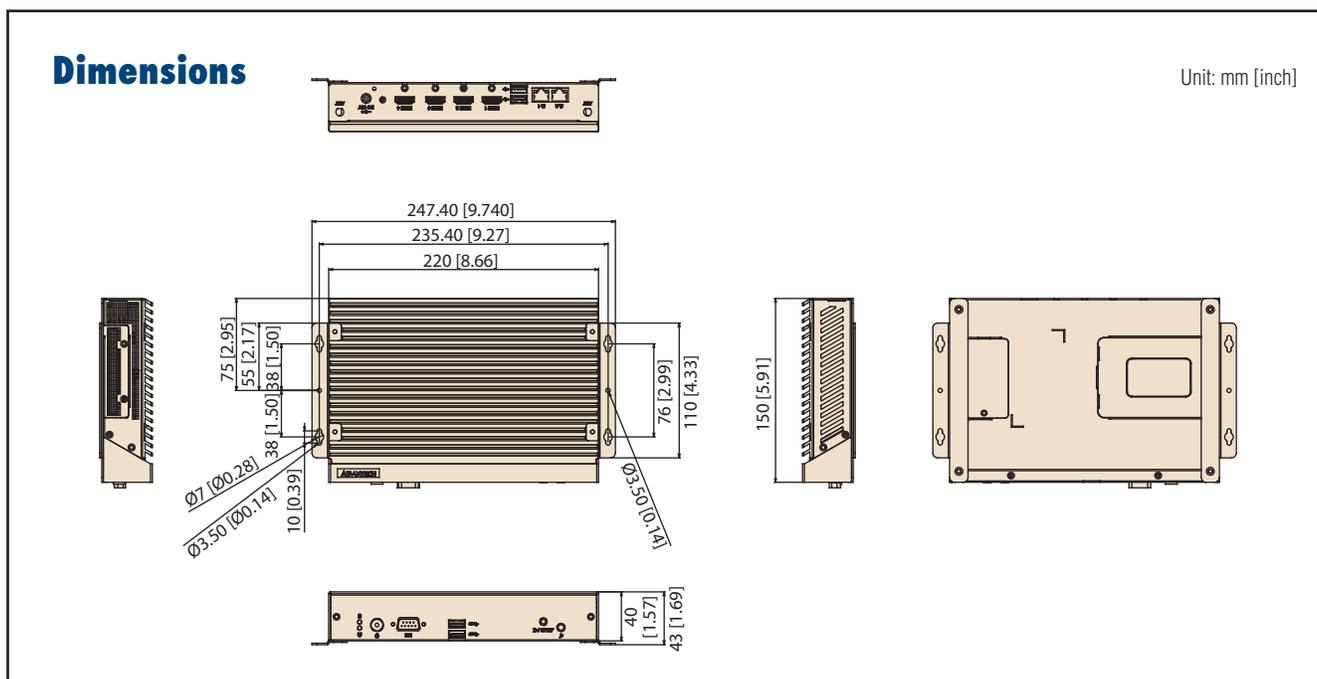
Acronis WISE-PaaS/DeviceOn WISE-PaaS/SignageCMS

Introduction

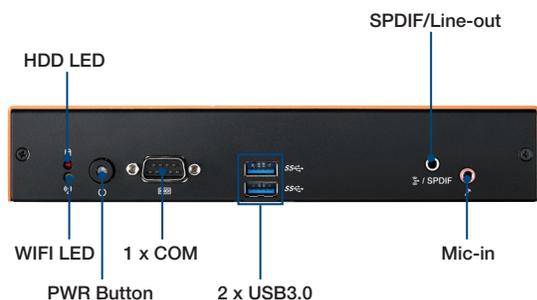
Advantech DS-580 is a Ultra HD signage player powered by an Intel® Atom™ Processor E3950 with integrated NVIDIA® GeForce® GT 1030 graphic engine for Ultra HD. This GT 1030 graphic engine's award-winning NVIDIA Pascal™ architecture, powerful graphics engine, and state-of-the-art technologies give you 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

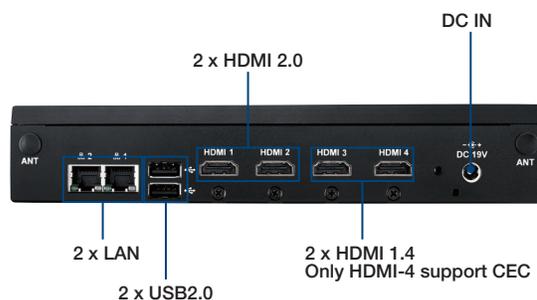
		DS-580
Processor System	CPU	Intel® Atom™ Processor E3950
	System Chipset	Integrated in CPU
	L2 Cache	2 MB
	BIOS	AMI uEFI 64-Mbit
Memory	Technology	2 x DDR3L 204-pin DIMM**
	Max. Capacity	16 GB (up to 8 GB per SODIMM)
Graphic & Display Tech.	Graphic Engine	HDMI-1 and HDMI-2: NVIDIA® GeForce GT 1030 HDMI-3 and HDMI-4: Intel® HD Graphics 505
	Graphic Memory	2GB GDDR5
	Resolution	HDMI 2.0: up to 3840 x 2160 @ 60Hz HDMI 1.4: up to 3840 x 2160 @ 30Hz (HDMI-4 supports CEC function)
	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 MiniPCIe 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 (No RED certification)



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-S6A2E	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
20706WX9ES0037	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)