DS-580

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



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/DeviceOn Wise-Paas/SignageCMS







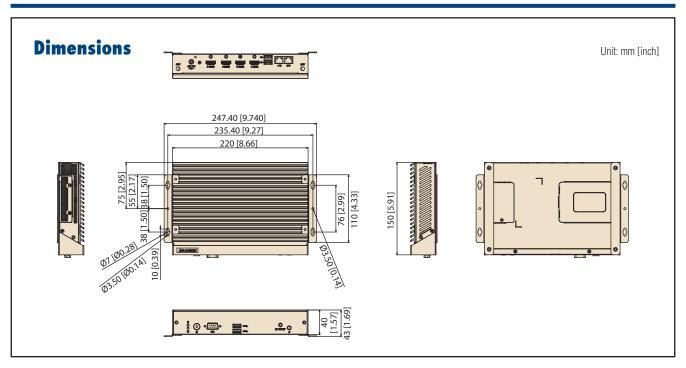


Introduction

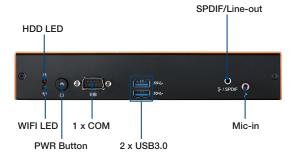
Advantech DS-580 is a Ultra HD signage player powered by an Intel® Atom™ Processor E3950 with integrated NVIDIA® GeForce® GT 1030 graphic engine for Ultra HD. This GT 1030 graphic engine's award-winning NVIDIA Pascal™ architecture, powerful graphics engine, and state-of-the-art technologies give you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

- potilitario		DS-580
	CPU	Intel® Atom™ Processor E3950
Processor System	System Chipset	Integrated in CPU 2 MB
	L2 Cache	
	BIOS	AMI uEFI 64-Mbit
Memory	Technology	2 x DDR3L 204-pin DIMM**
	Max. Capacity	16 GB (up to 8 GB per SODIMM)
	Graphic Engine	HDMI-1 and HDMI-2: NVIDIA® GeForce GT 1030 HDMI-3 and HDMI-4: Intel® HD Graphics 505
	Graphic Memory	2GB GDDR5
Graphic & Display Tech.	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
	' '	Decode for H.264,VC-1,WMV9,H.265/HEVC,VP8,VP9,JPEG/MJPEG,MPEG2(only for Yocto project Linux)
	Video Format	Encode for H.264,MVC,WMV9,H.265/HEVC,VP8,VP9,JPEG/MJPEG
Storage	SATA	1 x 2.5-inch SATA III HDD/SSD
File and a	Interface	Gigabit LAN controller
Ethernet	Controller	1 x Intel I211-AT, 1 x Realtek 8111G
	LAN	2 (RJ-45)
	USB 2.0	2
I/O Interface	USB 3.0	2
I/O IIIteriace	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 PCle	1 x Full Size MiniPCle support mSATA; w/SIM holder, support WWAN module (USB interface)
Expansion	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)
1 ower riequirement	Input Voltage	19 V DC in (ATX/AT mode, default ATX)
	Output	Interrupt, system reset
Watchdog Timer	Interval	Programmable using WISE-PaaS/EdgeSense
	Mounting	Wall mount kits for LCD or plasma panels
Physical Characteristics	Dimensions (W x H x D)	220 x 40 x 150 mm
Triyotodi Orlaradioriotioo	Weight	1.7 kg
Facility	Operating Temperature	0 ~ 40 °C (w/ HDD), with 0.7m/s air flow 0 ~ 50 °C (w/ SSD) with 0.7m/s air flow
Environment	Relative Humidity	95% @ 40° C (non-condensing)
		Supports Microsoft Windows 10
Software Development Kit	Operating System Linux	Supports microsoft windows 10 By project
	EMC	CE, FCC Class B, BSMI
Certification		
	Safety	UL, CCC, BSMI, CB (No RED certification)



Front 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

Ordering Information

Part Number	Description
DS-580GB-S6A2E	DS-580 E3950 with graphic, barebone

Embedded OS

Part Number	Description
20706WX9ES0187	img W10 19EL DS-580 64b 1809 ENU (Intel I210AT LAN)

Rear View



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)

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)