DS-351

Outdoor Multi-Display Digital Signage Player



Features

- Powered by AMD Ryzen™ R2000 Series processors
- Integrated AMD Radeon™ graphics for high-performance visual applications
- Supports up to 4 x HDMI outputs with resolutions up to 4K
- Wide-temperature, fanless design for reliable operation in demanding environments
- Supports DeviceOn/SignageCMS for centralized content management, remote monitoring, and device control
- Optional Out-of-Band (OOB) remote management
- Built-in firmware TPM (fTPM); discrete TPM 2.0 available as a BOM option upon project request

WISE-PaaS/SignageCMS WISE-DeviceOn

Windows 11 Windows 10

Introducton

Measuring at 38 mm thick, DS-351 is a slim digital signage player powered by AMD Ryzen R2000 series. This thin-andpowerful signage player is equipped with 3 or 4 HDMI display which is capable to achieve up to 4K resolution, and delivers a premium visual experience when graphics performance really matters. Advantech DeviceOn/SignageCMS, a web-based content management software, supports Windows 10, Windows 11, and Ubuntu 26.04 LTS.

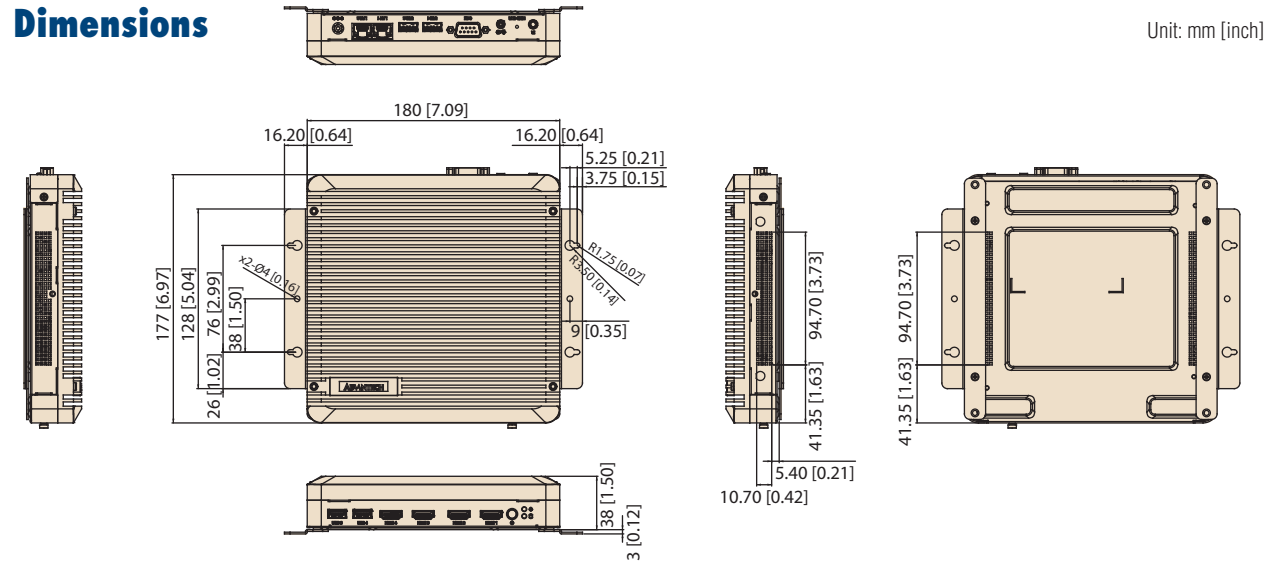
Specifications

		DS-3510F-U2A2U	DS-3510F-U1A1E	DS-3510F-U0A1E
Processor	Processor	AMD R2514(4 Cores/8 Threads)	AMD R2314 (4 Cores/ 4 Threads)	AMD R2312 (2 Cores/ 4 Threads)
	Chipset	Integrated in SOC		
	BIOS	AMI uEFI 256 Mbit		
Memory	Technology	DDR4 3200 MHz SODIMM		
	Max. Capacity	32GB (16GB per SO-DIMM)		
	Socket	2 x 260-pin SODIMM		
CPU TDP		15W		
Thermal Solution		Fanless		
Display	Graphics Engine	AMD Radeon (8 GPU Compute Units)	AMD Radeon™ Graphics (6 GPU Compute Units)	AMD Radeon™ Graphics (3 GPU Compute Units)
	Output	HDMI 2.1 TMDS x 3+HDMI 1.4 x 1	HDMI 2.1 TMDS x 3+HDMI 1.4 x 1	HDMI 2.1 TMDS x3
	Resolution	Up to 3840 x 2160 @30Hz , 4K playback by HW Codec		
Ethernet	Controller	Intel i210IT, Realtek RTL8111KI		
	Interface	Gigabit LAN Controller		
	Connector	2 x RJ-45 10/100/1000 Mbps		
I/O Interfaces	Audio	1 x 3.5mm Audio Jack for jack sense (Line-in/out, Mic-in or SPDIF)		
	HDMI (EDID Lock)	4	4	3
	USB	2 x USB 2.0, 2 x USB 3.2Gen1		
	Serial Port	1 x COM1 RS-232 (TX/RX/CT S/RTS) 1 x COM2 RS-232 (TX/RX), OEM support		
	Switch/button	1 x Power on/off button; 1 x EDID_CLR button		
	LED Indicators	1 x Power, 1 x SSD or Storage Access		
	IR	1x IR		
Expansion	M.2	M.2 2230 E Key (PCIex1 &USB2.0) for WiFi/BT		
Storage	M.2	1 x M.2 2242 M Key (SATA / PCIex4) for storage		
Power Requirement	Power Management	ACPI 3.0		
	Input Voltage	12 - 24V, 65W DC-in (ATX/AT mode)		
Trusted Platform Module	TPM2.0	fTPM 2.0, Default TPM 2.0 (NPCT760AABYX), BOM option by project support		
Watchdog Timer	Output	Interrupt, system reset		
	Interval	255-level timer interval, setup by software		
Physical Characteristics	Mounting	Wall Mount		
	Dimensions (W x D x H)	180 x 177 x 38 mm		
	Weight	TBD		
Environment	Operating Temperature	-20 ~ 60°C / -4 ~ 140°F with 0.7 m/s airflow		
	Relative Humidity	95% @ 40° C (non-condensing), operating		
Operating System		Windows 10, Windows 11, Ubuntu 26.04 LTS		
Certifications	EMC	CE, FCC Class B, CCC, BSMI, UKCA		
	Safety	UL, CB, CCC, BSMI, UKCA (No RED certification)		

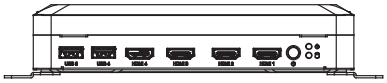
#1 M.2 E key slot are hardware interfaces for wireless communication integration only. RF Certification is not available.

All product specifications are subject to change without notice.

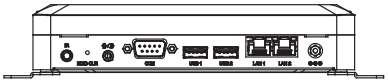
Dimensions



Front View



Rear View



Ordering Information

Part No.	CPU	TDP	RAM	Display	OOB	LAN	USB	COM (RS-232)	M.2 (SATA)	Power Input
DS-3510F-U0A1E	AMD R2312 (2 Cores/4 Threads)	15W	Up to 32GB	3 x HDMI (HDMI 2.1 TMDS) with EDID	No	2 x GbE LAN 10/100/1000 Mbps (Intel i210|T + Realtek RTL8111KI)	2 x USB 2.0 2 x USB 3.2 Gen 1	2 x RS-232 (COM1: TX/R/CTS/RTS) (COM2: TX/RX)	1 x M.2 2242 M-Key (SATA) (Storage)	12-24V DC-IN, 65W
DS-3510F-U0A1U	AMD R2312 (2 Cores/4 Threads)			3 x HDMI (HDMI 2.1 TMDS) with EDID	No					
DS-3510F-U1A1E	AMD R2314 (4 Cores/4 Threads)			4 x HDMI (HDMI 2.1 TMDS x3 + HDMI 1.4 x1) with EDID Lock	Yes					
DS-3510F-U1A1U	AMD R2314 (4 Cores/4 Threads)			4 x HDMI (HDMI 2.1 TMDS x3 + HDMI 1.4 x1) with EDID Lock	No					
DS-3510F-U1A2E	AMD R2314 (4 Cores/4 Threads)			4 x HDMI (HDMI 2.1 TMDS x3 + HDMI 1.4 x1) with EDID Lock	No					
DS-3510F-U2A2U	AMD R2514 (4 Cores/8 Threads)			4 x HDMI (HDMI 2.1 TMDS x3 + HDMI 1.4 x1) with EDID Lock	Yes					

Note: RAM / Storage and Operating System bundled by request

Packing List

Part Number	Description
-	1 x DS-351
96PSA-A65W19V1-5	1x 19V power adapter
1960057740T002	2 x Wall Mount brackets and screws

Optional Items

Part Number	Description
AMK-V024E	DS standard mounting kit
1751000648-01	RF Cable/ 1.13' 10cm/ Black/ RP SMA JACK to IPEX MHF4L
1751000635-01	RF Cable/ 1.13' 20cm/ Black/ RP SMA JACK to IPEX MHF4L
1751000651-01	WiFi 6E Dipole ANTENNA 2400~2500 / 5150~5925 / 6000~7125 MHz

Note: If Wi-Fi is required, the package must include the module, antenna, and antenna cable.

Embedded OS

Part Number	Description
TBD	Win11 LTSC Entry 64b 24H2 ENU
TBD	Win10 LTSC Entry 64b 21H2 ENU
TBD	Ubuntu26.04

RAM & Storage

Part Number	Description
SQR-SD4I4G3K2HNPG	Memory, DDR4 4GB, Hynix
SQR-SD4I8G3K2HNBG	Memory, DDR4 8GB, Hynix
SQR-SD4I16G3K2HNBG	Memory, DDR4 16GB, Hynix
SQF-S4BV1-64GDSDM	Storage, M.2 2242, SATA, 64GB
SQF-S4BV1-128GDSDM	Storage, M.2 2242, SATA, 128GB
SQF-S4BV1-256GDSDM	Storage, M.2 2242, SATA, 256GB
SQF-S4BV2-512GDSDM	Storage, M.2 2242, SATA, 512GB
SQF-C4MV2-128GDEDM	Storage, M.2 2242, NVMe, 128GB
SQF-C4MV2-256GDEDM	Storage, M.2 2242, NVMe, 256GB
SQF-C4MV2-512GDEDM	Storage, M.2 2242, NVMe, 512GB

Power Cord

Part Number	Description
1700001524	3-pin power cord (US)
170203183C	3-pin power cord (EU)
170203180A-01	3-pin power cord (UK)
1700008921	3-pin power cord with PSE (Japan)
1700019146	3-pin power cord (CCC)
1700018553	3-pin power cord (AU)
1700024849-01	3-pin power cord (TW)