

# DS-084

## Ultra-slim Digital Signage Player with 3/4 Display Output (2K/4K Support)

### Preliminary



Windows 10

Windows 11

## Introduction

Measuring at 23 mm thick, DS-084 is a slim digital signage player powered by AMD Ryzen R2000 series. This thin-and-powerful 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, Web-based content management software support in Windows 11.

## Specifications

		DS-0840B-U2A1E	DS-0840B-U1A1E	DS-0840B-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		
	Max. Capacity	32GB (16GB per SO-DIMM)		
	Socket	2 x 260-pin SODIMM		
CPU TDP		25W	25W	25W
Thermal Solution		Smart-Fan	Smart-Fan	Smart-Fan
Display	Graphics Engine	AMD Radeon (8 GPU Compute Units)	AMD Radeon (6 GPU Compute Units)	AMD Radeon (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 @60Hz, 4K playback by HW Codec		
Ethernet	Controller	Intel i210, Realtek RTL8111G		
	Interface	Gigabit LAN Controller		
	Connector	2 x RJ-45 10/100/1000 Mbps		
I/O Interfaces	Audio	1 x Line-out & 1 x Mic-in		
	HDMI (EDID support)	4	4	3
	USB	2 x USB 2.0, 2 x USB 3.2Gen1		
	Serial Port	1 x RS-232		
	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 (Reserve for OEM Support)		
Storage	M.2	M.2 2242 M-Key SATA (NVMe PCIe x4 reserve for OEM support)		
Power Requirement	Power Management	ACPI 3.0		
	Input Voltage	19V 3.42A 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 23 mm		
	Weight	0.9 kg (1.98 lb)		
Environment	Operating Temperature	0 ~ 40° C (32 ~ 104F) with 0.7 m/s airflow		
	Relative Humidity	95% @ 40° C (non-condensing), operating		
Operating System	Operating System	Win11/Win10 LTSC x64		
	Linux	supported by project		
Certifications	EMC	CE, FCC Class B, CCC, BSMI, UKCA		
	Safety	UL, CB, CCC, BSMI, UKCA (No RED certification)		

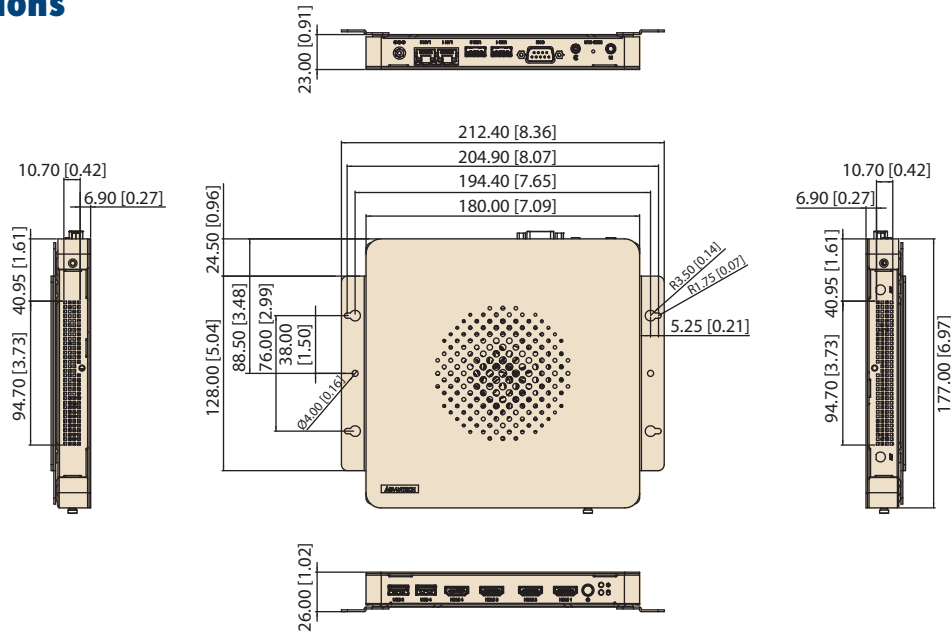
## Features

- Power by AMD Ryzen R2000 processor
- Powerful graphic engine - AMD Radeon HD graphics
- 23mm-thin chassis ideal for space-limited installation
- 3/4 HDMI support up to 4K output; resolution up to 4K (3840 x 2160)
- Cable-less design for easy maintenance
- Supports DeviceOn/SignageCMS for intuitive signage content managing, remote monitoring and control
- Supports Out-of-Band (OOB) remote management upon request
- Equipped with firmware TPM (fTPM) by default; discrete TPM 2.0 available as a BOM option based on project request

McAfee Acronis WISE-PaaS/SignageCMS WISE-DeviceOn

## Dimensions

Unit: mm [inch]



## Front View



## Rear View



## Ordering Information

Part Number	Description
DS-0840B-U0A1E	AMD R2312, 3 x HDMI w/ EDID, Fan, Barebone
DS-0840B-U1A1E	AMD R2314, 4 x HDMI w/ EDID, Fan, Barebone
DS-0840B-U2A1E	AMD R2514, 4 x HDMI w/EDID, Fan, Barebone
DS-0840B-U0A1U	AMD R2312, 3 x HDMI w/ EDID, Fan, Barebone, TW
DS-0840B-U1A1U	AMD R2314, 4 x HDMI w/ EDID, Fan, Barebone, TW
DS-0840B-U2A1U	AMD R2514, 4 x HDMI w/EDID, Fan, Barebone, TW

## RAM & Storage

Part Number	Description
SQR-SD4S4G3K2HNPG	Memory, SQ, DDR4 4GB
SQR-SD4S8G3K2HNBG	Memory, SQ, DDR4 8GB
SQR-SD4S16G3K2HNBG	Memory, SQ, DDR4 16GB
SQF-S4BV1-64GSDSDC	Storage, M.2 2242, SQ, 64GB
SQF-S4BV1-128GSDSDC	Storage, M.2 2242, SQ, 128GB
SQF-S4BV1-256GSDSDC	Storage, M.2 2242, SQ, 256GB
SQF-S4BV2-512GSDSDC	Storage, M.2 2242, SQ, 512GB

## Packing List

Part Number	Description
-	1 x DS-084
-	1 x 19V 3.42A Power adapter
-	2 x Wall Mount Brackets
-	4 x Rubber foot and screws
-	4 x DDR4 Thermal pads

## Embedded OS

Part Number	Description
20706WLE1S0095	Win11 LTSC Entry 64b 24H2 ENU
20706WX1ES0142	Win10 LTSC Entry 64b 21H2 ENU

## 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)