

DS-082

Ultra-slim 3/4 Display Digital Signage Player



Introduction

Measuring at 19 mm thick, DS-082 is the world's slimmest digital signage player powered by AMD Ryzen V1000/R1000 series. This thin-and-powerful signage player is equipped with 4 x HDMI display which is capable to achieve up to 4K resolution, and delivers a premium visual experience when graphics performance really matters. Windows 10 OS, Linux are supported, and Advantech WISE-PaaS/SignageCMS, Web-based content management software, is also free on offer. We've designed the DS-082 in the smallest possible form factor, for optimized performance.

Specifications

		DS-082GB-U0A1E	DS-082GBF-U0A1E	DS-082GBF-U6A1E
Processor	Processor	AMD V1605B	AMD V1605B	AMD R1606G
	Chipset	Integrated in SOC		
	BIOS	AMI uEFI 64 Mbit		
Memory	Technology	DDR4 2400MHz		
	Max. Capacity	32GB (16GB per SO-DIMM)		
	Socket	2 x 260-pin SODIMM		
CPU TDP		25W	15W	15W
Thermal Solution		Active	Fanless	Fanless
Display	Graphics Engine	AMD Radeon HD graphics		
	Output	HDMI 2.0 x 4	HDMI 2.0 x 4	HDMI 2.0 x 3
	Resolution	3840 x 2160 @ 60Hz		
Ethernet	Controller	Realtek RTL8111G		
	Interface	Gigabit LAN Controller		
	Connector	1 x RJ-45		
I/O Interfaces	Audio	1 (SPDIF/Line-out/ Mic-in), support Jack Sense		
	LAN	1 (RJ-45)		
	HDMI	4	4	3
	USB	USB 2.0 x 2, USB 3.0 x 2		
	Serial Port	1 x RS-232		
	PSW	1 x Power on/off button		
	LED Indicators	1 x Power, 1 x HDD Access		
Storage	M.2	2242 M Key (SATA)		
WiFi & BT	M.2	2230 E Key		
Power Requirement	Power Management	ACPI 3.0		
	Input Voltage	19 V DC-in (ATX/AT mode)		
Watchdog Timer	Output	Interrupt, system reset		
	Interval	255-level timer interval, setup by software		
Physical Characteristics	Mounting	VESA/Desk/Wall/Din Rail		
	Dimensions (W x D x H)	180 x 190 x 19 mm		
	Weight	0.87 kg (1.92 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	Win10x64, Win11x64		
	Linux	supported by project		
Certifications	EMC	CE, FCC Class B, CCC, BSMI, UKCA		
	Safety	UL, CB, CCC, BSMI, UKCA (No RED certification)		

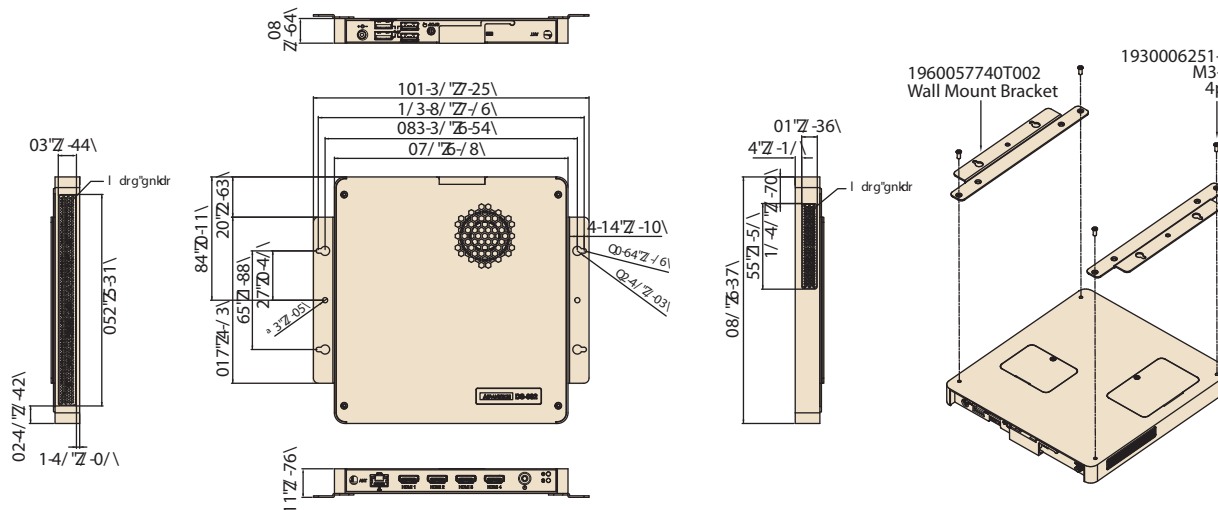
Features

- Power by AMD Ryzen V1000/R1000 processor
- Powerful graphic engine - AMD Radeon HD graphics
- 19mm-thin chassis ideal for space-limited installation
- 3/4 HDMI display output, resolution up to 4K(3840 x 2160)
- Cable-less design for easy maintenance
- Supports WISE-PaaS/DeviceOn and Embedded Software APIs
- Supports WebAccess/SignageCMS for intuitive signage content managing, remote monitoring and control
- TPM2.0: Firmware TPM (fTPM) by default; discrete TPM chip available as a BOM option based on project request

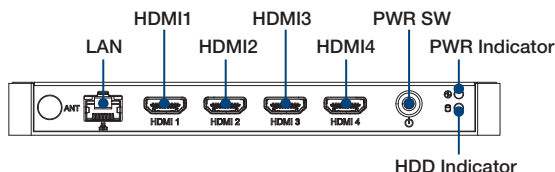
McAfee Acronis WISE-PaaS/SignageCMS WISE-DeviceOn

Dimensions

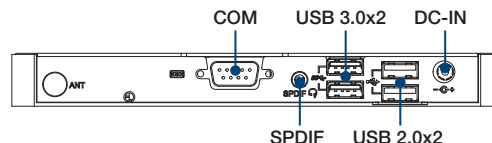
Unit: mm [inch]



Front View



Rear View



Ordering Information

Part Number	Description
DS-082GB-U0A1E	AMD V1605B, Barebones, 4 Display, Active Cooling (25W)
DS-082GBF-U0A1E	AMD V1605B, Barebones, 4 Display, Fanless(15W)
DS-082GBF-U6A1E	AMD R1606G, Barebones, 3 Display, Fanless (15W)
DS-082GBF-U0A1U	AMD V1605B, Barebones, 4 Dis, Fanless(15W)
DS-082GBF-U6A1U	AMD, R1606G, Barebones, 3 Dis, Fanless(15W)

Optional Items

Part Number	Description
AMK-V005E	VESA mount kit (Generic for ARK-DS/DS)
AMK-V017E	DS products VESA with Din Rail bracket

Packing List

Part Number	Description
	1 x DS-082
1960057740T002	2 x Wall Mount brackets and screws
96PSA-A65W19V1-3	1x 19V power adapter
1990012452S000	4x Rubber Foot and screws

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)

Embedded OS

Part Number	Description
20706WX1VS0119	Win10 LTSC 21H2 Value, for AMD V1807B/V1605B
20706WX1ES0119	Win10 LTSC 21H2 Entry, for AMD R1606G
20706WLV1S0033	Win11 LTSC 24H2 Value, for AMD V1807B/V1605B
20706WLE1S0033	Win11 LTSC 24H2 Entry, for AMD R1606G

RAM & Storage

Part Number	Description
SQR-SD4S4G3K2HNPG x1	Memory, DDR4 4GB
SQR-SD4S4G3K2HNPG x2	Memory, DDR4 4+4GB
SQR-SD4S16G3K2HNPG x2	Memory, DDR4 16+16GB
SQF-S4BV1-64GDSDC	Storage, M.2 2242, SQ, 64GB
SQF-S4BV1-128GDSDC	Storage, M.2 2242, SQ, 128GB
SQF-S4BV1-256GDSDC	Storage, M.2 2242, SQ, 256GB

Optional Accessory

Part Number	Description
1960056999T301	VESA Mount BKT