

DS-086

8K60/ 4x4K60 Digital Signage Player

Preliminary



Features

- Power by Intel Core Ultra 5 CPU
- HDMI 2.1 8K60/4K60 Ports Support
- Dual-CH DDR5 & Smart Fan Design
- Dual 2.5 Gb LAN, RS232 & USB ports
- AI Frameworks support by 10 Tops NPU

WISE-PaaS/SignageCMS WISE-DeviceOn

Introduction

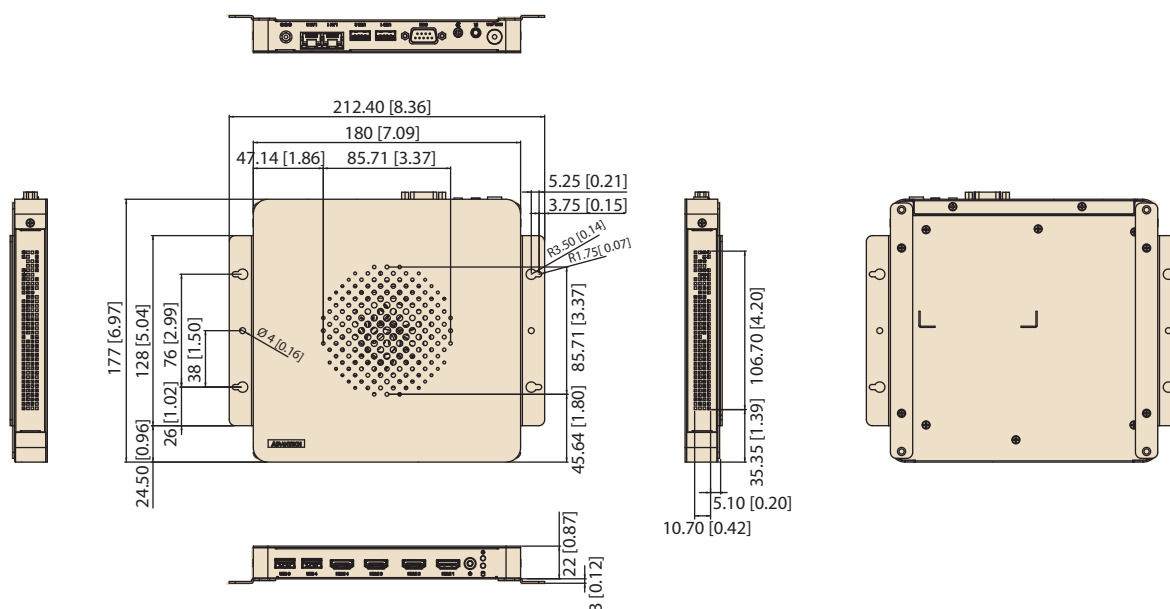
DS-086 is a TV wall signage player that is suitable for AI or Intercalative and signage applications. Equipped with Smart Fan & thin design. It is able to be installed in narrow spaces for 7/24 hours operation in public space. Intel Vpro for IT remote control or Hardware EDID for TV Wall application, are in different sku for filed demands.

Specifications

		DS-086GB-U1A1E	DS-086GB-U0A1E	DS-086GB-U2A1E	DS-086GB-U3A1E
Processor	Chipset	Intel® Core™ Ultra 5, 125H	Intel® Core™ Ultra 5, 135U (Vpro version)	Intel® Core™ Ultra 5, 125U	Intel® Core™ Ultra 5, 135H (Vpro version)
	BIOS	AMI uEFI 256 Mbit			
Memory	Technology	DDR5 4800/5600Mhz Support			
	Max. Capacity	24GB per DIMM			
	Socket	2 x SO-DIMM			
CPU TDP		28W	15W	15W	28W
Thermal Solution		PWM control by Smart Fan			
NPU	AI Engine	Intel® AI Boost, 10 TOPs			
	Graphics Engine	Intel® Arc™ graphics	Intel® Graphics	Intel® Graphics	Intel® Arc™ graphics
Display	HDMI Ports	4 x 4K60 (4 x 3840*2160)			
	HDMI note	HDMI1 8K60 (7860*4320)			
Ethernet	Controller	Intel® Ethernet Controller I226	Intel® Ethernet Controller I226 w/ Vpro	Intel® Ethernet Controller I226	Intel® Ethernet Controller I226 w/ Vpro
	Interface	2.5 Gigabit LAN Controller			
	Connector	1 x RJ45	2 x RJ45 (Vpro @ LAN1)	2 x RJ45	2 x RJ45 (Vpro @ LAN1)
I/O Interfaces	Audio	1 x (Line-Out or Mic-In)			
	USB	2 x USB 3.2 Gen1, 2 x USB 2.0			
	Serial Port (RS-232)	1 X RS232 (Tx, Rx)			
	LED Indicators	1 x Power, 1 x SSD Access			
	IR Phone Jack		1 x IR (Reserve for OEM Demand)	1 x IR (Reserve for OEM Demand)	1 x IR (Reserve for OEM Demand)
	EDID_CLR			1 x EDID_CLR	
Storage	M.2	1 x 2242 M Key (NVME)			
Power Requirement	Input Voltage	19 V DC-in (ATX/AT mode)			
	Output	Interrupt, system reset			
Watchdog Timer	Interval	255-level timer interval, setup by software			
	Mounting	Wall Mount			
Physical Characteristics	Dimensions (W x D x H)	177 x 180 x 22 mm			
	Weight	0.9 kg			
	Operating Temperature	0~40°C (without air flow)			
Environment	Storage Temperature	-20 ~ 85°C (-4~140°F)			
	Relative Humidity	95% @ 40 °C (non-condensing), operating			
	Operating System	Win10 LTSC X64, Win11 LTSC X64			
Operating System	Linux	supported by project			
	EMC	CE/FCC Class B, BSMI, UKCA			
Certifications	Safety	UL, CB, BSMI			

Dimensions

Unit: mm [inch]



Front View



Rear View



Ordering Information

Part Number	Description
DS-086GB-U0A1E	MTL 135U Vpro, 2 x 2.5 Gb LAN, IR, Barebone
DS-086GB-U1A1E	MTL 125H, 1 x 2.5 Gb LAN, Barebone
DS-086GB-U2A1E	MTL 125U, 2 x 2.5 Gb LAN, EDID, Barebone
DS-086GB-U3A1E	MTL 135H Vpro, 2 x 2.5 Gb LAN, IR, Barebone
DS-086GB-U0A1U	MTL 135U Vpro, 2 x 2.5 Gb LAN, IR, Barebone
DS-086GB-U1A1U	MTL 125H, 1 x 2.5 Gb LAN, Barebone
DS-086GB-U2A1U	MTL 125U, 2 x 2.5 Gb LAN, EDID, Barebone

Embedded OS

Part Number	Description
20706WLV1S0072	Win11 2024 LTSC value for Ultra-5
20706WX1VS0135	Win10 2021 LTSC value for Ultra-5

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)

Packing List

Part Number	Description
	1 x DS-086
	1 x Wall Mount brackets
	1x 19V power adapter

Storage and DRAM

Part Number	Description
SQF-C4MV2-128GDEDM	PCIe/NVMe M.2 2242 128G
SQF-C4MV2-256GDEDM	PCIe/NVMe M.2 2242 256G
SQF-C3AV1-512GDEDC	PCIe/NVMe M.2 2242 512G
SQR-SD5N8G5K6HNGAG	SODIMM DDR5 5600 8GB
SQR-SD5N16G5K6HNGAG	SODIMM DDR5 5600 16GB
SQR-SD5N24G5K6M	SODIMM DDR5 5600 24GB

Optional Items

Part Number	Description
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