USM-110

RISC Based 4K Digital Signage Player

Features

- Built-in Arm® Cortex®-A17 quad-core processor (1.6 GHz)
- 2 GB onboard memory
- 16GB eMMC onboard expandable MicroSD (TF) storage
- Dual HDMI outputs (1 x supports 4K resolution and 1 x supports 1080P resolution)
- Ultra-compact design for easy installation in confined spaces
- Supports various mount options including VESA, wall, pole, Magnet, and DIN-rail mounting
- Can be integrated with optional Wi-Fi, Bluetooth, and 4G LTE modules
- Equipped with WISE-Paas/SignageCMS software, which supports multi-screen displays
- Supports Android 6.0 /Linux Debian9.0

Introduction

USM-110 is an ultra-compact digital signage player that delivers high-performance graphics and supports H.265-encoded native 4K content at 60fps as well as dual Full HD video output. The system's ultra-compact fanless design and support for diverse mount options ensure easy installation in a wide range of application markets.Moreover, USM-110 is integrated with Advantech's WISE-Paas/SignageCMS digital signage management software, which allows users to layout, schedule, and dispatch signage contents to the USM-110 digital signage player over the Internet, enabling remote delivery of diverse high-resolution multimedia.
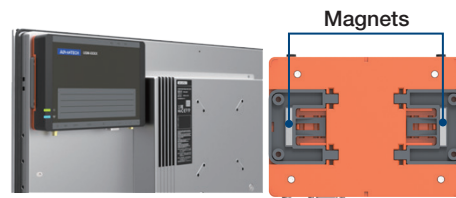
Product Highlights

2 x HDMI with locks
- Supports native 4K content @60fps
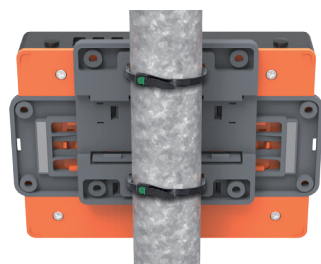- Dual 1080P resolution outputs

VESA Mount (75 x 75 mm)

Wall Mount (using the two side wings)

Magnet Mount (attached using magnets on the two wings)

Pole Mount (attached using cable ties)

DIN-Rail Mount

Specifications

		USM-110	USM-110 Delight
System	CPU	Arm® Cortex®-A17 quad-core processor (1.6 GHz)	
Graphics	GPU	Mali-T764	
	Graphics Engine	OpenGL ES 1.1/2.0/3.0, OpenCL 1.1, DirectX 11	
Memory	Capacity	2 GB onboard DDR3L (1333 MHz)	
Storage	Flash	16 GB of onboard eMMC	8 GB of onboard eMMC
	Extension	Micro SD	
Multimedia	H/W Video Codec	Decoder: 4K 10-bits 60fps H.265, H.264, MPEG-1, MPEG-2, MPEG-4,VC-1, VP8, AVS, MVC Encoder:1080P for H.264 (BP@level4.0, MP, HP@level4.0), MVC and VP8	
	Display Resolution	HDMI1: Native 4K resolution up to 3840 x 2160 (default 1080p) HDMI2: 1920 x 1080	N/A
I/O	HDMI	2	1
	LAN	1 x 10/100/1000 Mbps	1 x 10/100/1000 Mbps
	Serial Port	1 (RS232/485/422 by jumper)	N/A
	USB 2.0	4	2
	OTG USB	1	1
	Audio	1	1
	Reset	1	1
	LED Indicators	1 x Power, 1 x Wireless	1 x Power, 1 x Wireless
	DC In	1	1
Expansion	Micro SD Card Slot	1	1
	M.2	1 (for Wi-Fi module option)	1 (for wifi module option)
	Mini PCIe	1 (for 4G module option)	N/A
Mechanical	Dimensions (L x W x H)	156 x 112 x 28 mm (6.14 x 4.41 x 1.10 in)	
	Weight	0.43 kg (0.94 lb)	
	Power	12V/3A	
Installation	Mount Options	VESA (75 x 75), wall, desktop, pole, magnet,DIN rail	
Software	Operating System	Android 6.0/Linux Debian 9.0 (Linux not support 4K)	
	Software	WISE-Paas/SignageCMS (Only for Android system)	
	Display Orientation	Portrait and landscape modes supported	
	Client Status Reports	Generates Heartbeat, System reports	
	Supported Media Formats	Image: JPG, PNG, BMP, GIF; Video: H.264, MPEG-4, MPEG-2; Text: text, scrolling text; Audio: MP3, AAC, PCM	
Environment	Operating Temperature	0 ~ 40° C (32 ~ 104° F)	
	Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)	
	Relative Humidity	90% @ 40° C (non-condensing)	
Certification		CCC/BSMI/CE/FCC/UL/CB	

Dimensions

Unit: mm

USM-110

156

28.3

112

118