

# DS-100

## ARM-based 4K Digital Signage Player for independent dual displays



### Features

- Power by Rockchip RK3399 SOC (Dual-core Cortex-A72 + Quad-core Cortex-A53)
- LP-DDR3 2G plus 16G eMMC on board
- Dual independent HDMI outputs (4K 60fps + 1080P)
- Compact design ideal for space-limited installation
- Low power, fanless & cable-less design for easy maintenance
- Expandable via M.2 and micro SD card
- Dual LAN & RS-232 for connectivity and manageability
- Supports Android 7.1 & Linux Debian 9 (Kernel 4.4)
- Content Management Software built-in



### Introduction

DS-100 is an ultra-compact signage player in the smallest possible palm size for optimized graphics experience. It's powered by the latest ARM dual-core Cortex-A72 and quad-core Cortex-A53 processor, low power but not giving in to performance. It's on the cutting edge in terms of the display capability among Android signage players to enable dual independent HDMI outputs, maximum resolution up to UHD 4K 60Hz + FHD 1080P. With dual LAN to enable interconnectivity and RS-232 to enable long-term secure remote manageability, DS-100 simplifies deployment, maintenance, and management of remote devices. Android 7.1 and Linux Debian 9 are supported, besides, content management software are pre-loaded by option. Design with 4K graphics, as well as connectivity and manageability, DS-100 is your ideal digital signage player for retail, QSR application in the IoT era.

### Specifications

		DS-100	DS-100 Lite
Processor	Processor	Dual-core ARM Cortex-A72 processor + Quad-core ARM Cortex-A53 processor	
	Technology	LPDDR3-1600	
Memory	Capacity	2GB on-board	
	Flash	16GB eMMC onboard	
Storage	Extension	Micro SD	
	GPU	Quad-core ARM Mali-T860	
Graphics	Graphics Engine	OpenGL ES1.1/2.0/3.0, OpenCL1.2, DirectX11.1	
	Output	HDMI x 2	
	H/W Video Codec	Decoder: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, H.265, VC-1, VP9, VP8, MVC, MMU Embedded Encoder: H.264 (up to HP@level5.1), MVC, VP8, MMU Embedded	
	Resolution	HDMI 1: 4096 x 2304 @ 60Hz HDMI 2: 1920 x 1080 @ 60Hz	
Ethernet	Interface	Gigabit LAN Controller	
I/O	Audio	1	1
	LAN	2	1
	HDMI	2	2
	USB 3.0	1	1
	USB 2.0*	1	1
	Serial Port	1	N/A
	Reset	1	1
	LED Indicators	1 x Power, 1 x Wireless	1 x Power, 1 x Wireless
Expansion	M.2 2230	1	1
	Micro SD Card	1*	1
Power Requirement	Input Voltage	12V DC-in (AT mode)	
Watchdog Timer	Watchdog timer	Yes	
Physical Characteristics	Mounting	Wall/VESA	
	Dimensions (W x D x H)	135 x 130 x 29 mm	115 x 110 x 20 mm
	Weight	0.73kg	0.43kg
Environment	Operating Temperature	0 ~ 60 °C (32 ~ 140 °F)	
	Relative Humidity	95% @ 40 °C (non-condensing), operating	
	Storage Temperature	-20 ~ 70 °C	
	Relative Humidity	5 ~ 80% (non-condensing)	
Operating System	Android	7.1.2	
	Linux	Linux Debian 9 with Kernel 4.4	
Certifications	EMC	CE, FCC Class B, CCC, BSMI	
	Safety	UL, CB, CCC, BSMI	

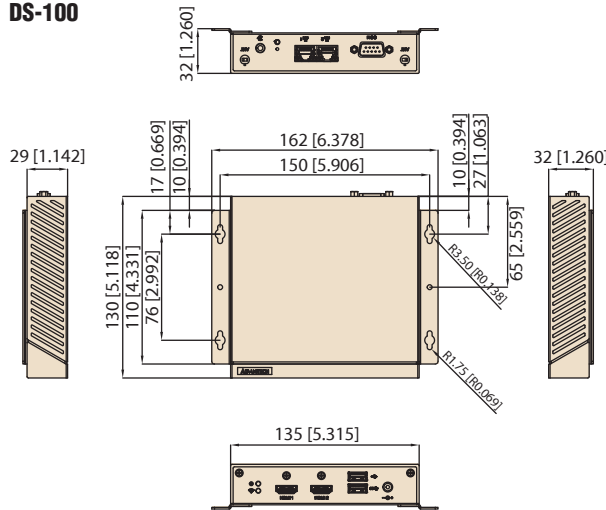
\*USB2.0 port is default OTG

\*Micro SD for DS-100 does not support hotplug.

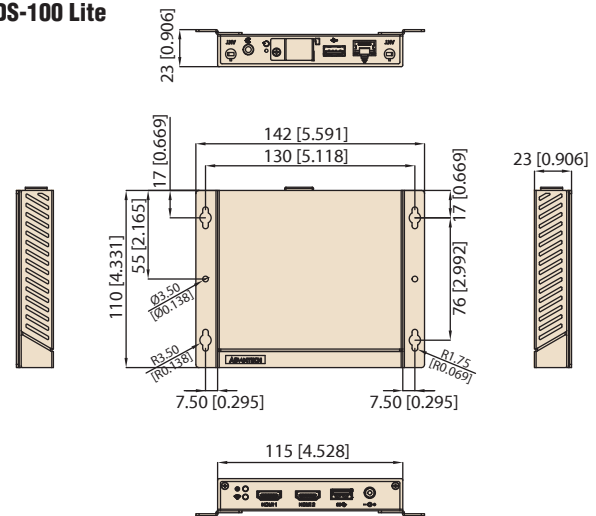
## Dimensions

Unit: mm [inch]

DS-100

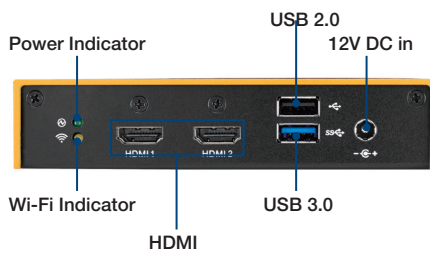


DS-100 Lite

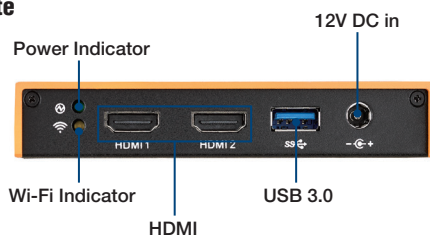


## Front View

DS-100

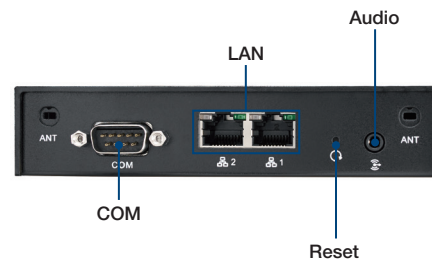


DS-100 Lite

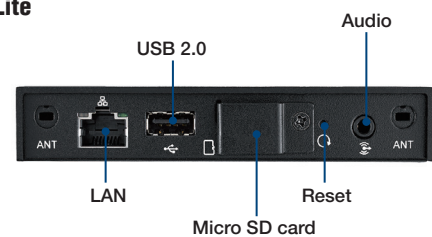


## Rear View

DS-100



DS-100 Lite



## Ordering Information

Part Number	Description
DS-100GF-S8A1E	DS-100, RK3399, 2G DDR3, 16G eMMC, Android 7.1.2
DS-100GFX-S8A1E	DS-100, RK3399, 2G DDR3, 16G eMMC, Android 7.1.2, CMS Xpress Preload
DS-100GL-S8A1E	DS-100 Lite, RK3399, 2G DDR3, 16G eMMC, Android 7.1.2
DS-100GLX-S8A1E	DS-100 Lite, RK3399, 2G DDR3, 16G eMMC, Android 7.1.2, , CMS Xpress Preload

## Power Cord

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

## Packing List

Part Number	Description
-	1 x DS-100
-	1 x 12V Power Adapter
-	2 x Wall Mount Brackets
-	4 x Rubber Feet with screws
-	1 x User Quick Guide

## Optional Accessory

Part Number	Description
AMK-V021E	VESA mount kit for DS-100
AMK-V022E	VESA mount kit for DS-100 Lite
EWM-W167M201E	WLAN and Bluetooth combo module 802.11b/g/n + BT4.0 (RTL8723BS)
EWM-W188M201E	WLAN and Bluetooth combo module 802.11a/b/g/n/ac + BT 4.2 (RTL8822BE)