Digital Display Solutions Powered by Android Digital Signage Players

Specifications	
Model No.	Amlogic S905D3 Android Digital Signage Players
CPU	Amlogic S905D3 Quad Core 64 Bit ARM Cortex-A55
GPU	ARM G31 MP2
RAM	2GB/LPDDR3, can be expanded to 4GB/LPDDR3
Internal Storage	16GB EMMC; 32GB/64GB optional
OS	Android 9.0
Video&Audio CODEC	
Video and Picture Decoding	Amlogic Video Engine (AVE) with dedicated hardware decoders and encoders Support multi-video decoder up to 4x1080P@60fps Supports multiple "secured"video decoding sessions and simultaneous decoding and encoding Video/Picture Decoding − VP9 Profile-2 up to 4Kx2K@60fps − H.265 HEVC MP-10@L5.1 up to 4Kx2K@60fps − AVS2-P2 Profile up to 4Kx2K@60fps − H.264 AVC HP@L5.1 up to 4Kx2K@30fps − MPEG-4 ASP@L5 up to 1080P@60fps (ISO-14496) − WMV/VC-1SP/MP/APupto1080P@60fps − AVS-P16(AVS+)/AVS-P2JiZhunProfileupto1080P@60fps − MPEG-2MP/HLupto1080P@60fps（ISO-13818) − MPEG-1MP/HLupto1080P@60fps(ISO-11172) − RealVideo8/9/10upto1080P@60fps − Multiple language and multiple format sub-title video support − MJPEG and JPEG unlimited pixel resolution decoding(ISO/IEC-10918) − Supports JPEG thumbnail, scaling, rotation and transition effects − Supports*.mkv,*.wmv,*.mpg,*.mpeg,*.dat,*.avi,*.mov,*.iso,*.mp4,*.rmand*.jpgfile formats
Video coding	−Independent JPEG and H.264 encoder with configur able performance/bit-rate −JPEG image encoding −H.265/H.264 video encoding up to 1080P@60fps with low latency
Decoder Format	HD MPEG1/2/4, H.265/HEVC, HD AVC/VC-1, RM/RMVB, Xvid/DivX3/4/5/6, RealVideo8/9/10
Media Format	Avi/Rm/Rmvb/Ts/Vob/Mkv/Mov/ISO/wmv/asf/flv/dat/mpg/mpeg
Music Format	MP3/WMA/AAC/WAV/OGG/DDP/TrueHD/HD/FLAC/APE
Photo Format	HD JPEG/BMP/GIF/PNG/TIFF
Port	
USB host	USB2.0, Max480Mbps/USB3.0, Max5.1Gbps
SIM	MICRO SIM
Video output	HDMI 2.1/1ch Lvds/1ch EDP (schedule V by one interface)
RJ45	RJ45 wire Ethernet connection 100/1000M Ethernet support
Wi-Fi/ Bluetooth	AP6398S(Wi-Fi+BT)2.4G+5.8G Dual Frequency
4G	PCIE Port
TF	Micro SD(Max 128G)
HDD	Support SATA Max2TB(Not included)
Power	

Power Supply	12V DC/3AΦ5.5*Φ2.5mm

Amlogic S905D3 is the main board of network Android system, applicable to intelligentdisplay terminal equipment, industrial automation terminal, computer vision,master control of shared products, intelligent access control, such as:advertising machine (double screen display), new retail terminal, vendingmachine, interactive printing, face painting payment, intelligent accesscontrol and other products, applied to advertising, security, transportation,public transport and other industries.

Thisproduct adopts the Amlogic ultra-low S905D3 chip optimized in 2019, and theoperating system is Android 9.0. Its main system CPU is four core armcortex-a55, which has a unified L3 cache. In addition, cortex-a55 CPU alsoincludes neon SIMD coprocessor to improve the software media processingcapacity. It supports high dynamic range processing of H.264 HDR10 and HLG, 10bits of H.265/vp9, AVS, AVS+, avs2 realvideo, MJPEG stream, and JPEG pictureswithout size limitation; independent encoder can encode to 1080P at the speedof 60 frames/second with JPEG or H.265/H.264; it supports output of 4Kx2K @60fp (3840 *2160) of HDMI 2.1 interface. The product comes with 2x2 WiFi(supporting 2.4G and 5G dual frequency)+Bluetooth 4.1 wireless network module,and supports Ethernet Gigabit Ethernet interface, infrared remote control,keyboard and mouse.

ProductFeatures

(1)RAMand ROM can be customized according to customer needs; 2GB/LPDDR3 can beenhanced to 4GB/LPDDR3

(2)DCvoltage input: DC+12V/3A, normal working power consumption<5W, standby powerconsumption<0.5W

(3)Dual-screen different display, support remote OTA upgrade, local USB, SD cardupgrade.

(4)USB 4G network card can be expanded through PCI-e hardware interface;

(5)Support Android system customization service, can provide special APPcustomization service;

(6)Provide system API interface code to perfectly support customers' upper APP

(7)Support USB playback, hot swap, convenient and fast content update

(8)Picture playback: rotation, zoom, pan, slide show, background music playback

(9)Play mode: single repeat play, folder loop play, full disk loop play

(10)Audio mode: left and right channels, stereo; maximum support 2*15W audio output

(11)OSD multi-language: support Chinese, English, French, German, etc.

(12)Support all kinds of peripheral expansion: the chip comes with USB2.0 andUSB3.0 interfaces to realize the docking of various network terminal devices

Precautionsfor assembly

In the process of assembly and use, please pay attention to the following (andnot limited to) problem points.

(①). Short circuit between bare board and peripherals.

(②). During the installation and fixing process, avoidthe deformation of the bare board due to the fixing reasons.

(③). When installing the EDP/MIPI/LVDS screen, payattention to whether the screen voltage and current are in compliance. Payattention to the direction of pin 1 of the screen holder.

(④). When installing the EDP/Mini/LVDS screen, payattention to the backlight voltage and current of the screen. If the power ofthe screen backlight is above 20W, whether to use other power boards for powersupply.

(⑤). When installing peripherals (USB, IO), pay attentionto the peripheral IO level and current output issues.

(⑥). When installing the serial port, pay attention towhether 232,485 devices are directly connected. Whether the connection of TXand RX is correct.

(⑦). Whether the input power is connected to the powerinput interface. According to the evaluation of the total peripherals, whetherthe input power voltage and current meet the requirements. Don't connect thepower supply input power from the backlight socket for the convenience ofoperation.

Tips

1. Before using the product, be sure to read the product specificationscarefully.

2. For boards that are not ready for installation, they should be stored inanti-static protective bags.

3. When holding the board, wear an anti-static wristband or protective gloves,and should be trained to touch only its edges.

4. When the motherboard is connected to the power supply, check the powersupply voltage.

5. In order to avoid damage to the product, each time the main board and boardare plugged or reconfigured, the power must be turned off or the power cordshould be unplugged from the power socket.

6. Before you need to connect or unplug any equipment, make sure that all powercords have been unplugged in advance.

7. In order to avoid unnecessary damage to the product caused by frequentswitch-on and switch-off, you should wait at least 30 seconds before switchingon.

8. If an abnormal situation occurs during the use of the equipment, please finda professional to deal with it.

In the digital age, impactful communication is key to business success, and the Android Digital Signage Player empowers organizations to transform their messaging with dynamic, high-quality displays. Combining cutting-edge hardware and software capabilities, this solution caters to the evolving needs of retail, hospitality, healthcare, and corporate environments.

Key Features of the Android Digital Signage Player

1. **Seamless 4K Ultra HD Visuals**
   Equipped with advanced processing power and a robust GPU, the Android Digital Signage Player ensures smooth 4K UHD playback. It creates vivid, engaging visuals that capture attention and enhance customer experiences.

2. **Flexible Android OS Integration**
   Built on the versatile Android operating system, the player supports a wide array of applications and content management systems (CMS). This compatibility streamlines deployment and ensures effortless software updates and customization to suit diverse business needs.

3. **Real-Time Remote Management**
   With built-in Wi-Fi capabilities, the player supports remote content updates and monitoring, enabling businesses to adapt their messaging on the fly. Whether managing a single screen or a network of displays, operations are simplified and efficient.

4. **Energy Efficiency**
   Designed with sustainability in mind, the player consumes minimal energy, lowering operational costs without compromising performance. Businesses can reduce their carbon footprint while maintaining high-quality digital displays.

5. **Secure and Scalable**
   Security features protect sensitive data, while the scalable design supports both small setups and expansive networks. This makes the Android Digital Signage Player ideal for businesses of any size.

Applications Across Industries

- **Retail**: Create captivating product promotions and in-store campaigns.
- **Hospitality**: Offer personalized experiences through digital kiosks and menus.
- **Healthcare**: Enhance patient communication with real-time updates and wayfinding displays.
- **Corporate**: Streamline internal communication with digital dashboards and meeting room displays.

Driving Business Success

The Android Digital Signage Player is more than a tool; it's a strategic asset. By enabling dynamic, data-driven displays, it fosters deeper engagement with customers and employees, drives sales, and enhances brand perception.

Conclusion

For businesses seeking to revolutionize their digital communication, the Android Digital Signage Player offers a versatile, high-performance, and cost-effective solution. From its 4K visuals and flexible Android OS to its energy efficiency and scalability, this player provides everything needed to stay ahead in a competitive market.

Invest in the Android [Digital Signage](#) Player today to redefine your digital display strategy and achieve impactful business results.