

WISI ORVSTB103

IPTV/OTT Set-Top Box, EU Plug



Android Based Ultra HD IPTV / OTT Set Top Box



Smarter . Faster . Better

Android STB (ORVSTB103) is our next generation TV box powered by the Android 9.0 and targeted for future proof IPTV and OTT deployments with UHD HEVC decoding.

ORVSTB103 able to play 8K Ultra HD video with the powerful GPU architecture and the latest HDR standard which gives more realistic colors and vibrant images.

HDR Video (High Dynamic Range)

ORVSTB103 Max support HDR10 technologies. With this technology, you can watch HDR videos in vivid contrast, color and clarity.

*Requires a HDR TV and HDR-enabled video content.

HEVC Decoder

Supports hardware decoding of 8k@24fps 10bit HEVC(H.265)

H.265/HEVC is a successor to H.264/AVC. Compare to H.264, H.265 data compression ratio is double at the same level of video quality.

It can alternatively be used to provide substantially improved video quality at the same bit rate.

2GB + 16GB eMMC Flash

eMMC memory makes users enjoy faster read & write speed. And the utilization of eMMC memory offers security and reliability.

2GB DDR3 RAM can run games or applications smoothly and resulting in a rich end-user experience.

IPTV and OTT Functionality

ORVSTB103 is designed to fulfill current market needs and allows you to design your own Smart TV experience with built-in Webkit based IPTV browser.

You can use ES5, ES6, CSS, CSS3 and HTML5 features as you wish, and develop fully customized and high-performance applications with the WebKit core that supports up-to-date web technologies. With the API provided by ORVSTB103, you have dramatically control over the Media, Device and Android platform.

Rich Applications

All your famous applications like Youtube, MiraCast, AirCast, Netflix, Browser and many more now becomes TV version and support higher resolution. You can do real web surfing and play casual games as the ORVSTB103 comes with a Bluetooth remote control with motion 8-axis gyroscopic control.

Enjoy the Big Screen with Wireless Projection

You can easily mirror your content such as Apps, Games, Videos, Images, and Audio etc. into the TV Screen.

Connectivity : (DualBand MIMO Wifi / Ethernet / USB3.0)

ORVSTB103 adopts 802.11AC Dual band 2.4G / 5G MIMO WIFI, 2T2R technology, which provides you a fast and stable wireless connection.

10/100/1000M LAN provides more stable local network for video streaming with Ethernet interface. ORVSTB103 brings you a non-stuttering enjoyment when surfing the Internet.

With the USB 3.0 interface, you can reach the best transmission rate. (up to 300MB per second).

Technical data

Hardware

CPU Quad Core ARM Cortex A55 – 2GHz

Memory (RAM) 2GB DDR3

Memory (ROM) 16GB eMMC

Graphics (GPU) ARM Mali-G31MP

Software

Operating system Android Pie 9 – AOSP

DRM Widevine

Middleware Customizable OTT & Hospitality platform. (with JS Device API)

Browser Webkit (Webview – version 83.0.4103.101)

Interfaces

Ethernet (RJ45) 10/100/1000 MBps

Wifi 802.11n 2.4G / 5G Dual Band Wifi 2R2T (MIMO)

USB USB2.0 x 1 - USB3.0 x 1

HDMI HDMI 2.1 Support HDMI CEC Dynamic HDR, 8Kx4K@24 and 4Kx60@fps

TF Card MicroSD (Support 4GB/8GB/16GB/32GB/64GB)

AV Out 480i/576i standard definition output

Video & Audio

Video Codecs

Amlogic Video Engine (AVE) with dedicated hardware decoders and encoders

Support multi-video decoder up to 4x1080P@60fps

- VP9 Profile-2 up to 8Kx4K@24 fps
- H.265 HEVC MP-10@L5.1 up to 8Kx4K@24 fps
- AVS2-P2 Profile up to 8Kx4K@24 fps
- VP9 Profile-2 up to 4Kx2K@60 fps
- H.265 HEVC MP-10@L5.1 up to 4Kx2K@60 fps
- AVS2-P2 Profile up to 4Kx2K@60 fps
- H.264 AVC HP@L5.1 up to 4Kx2K@30fps
- MPEG-4 ASP@L5 up to 1080P@60fps (ISO-14496)
- WMV/VC-1 SP/MP/AP up to 1080P@60fps
- AVS-P16(AVS+) /AVS-P2 JiZhun Profile up to 1080P@60fps
- MPEG-2 MP/HL up to 1080P@60fps (ISO-13818)
- MPEG-1 MP/HL up to 1080P@60fps (ISO-11172)
- RealVideo 8/9/10 up to 1080P@60fps

Technical data

Video Containers TS, MTS, AVI, MPEG, MP4, MOV, MKV, M2TS, VOB, WMV/WMA, 3GP, WAV, FLV, M3U, M3U8

Video Inputs UDP/RTP Multicast/Unicast, Http Live Streaming (HLS), TCP/RTP Unicast, DCCP/RTP Unicast, Video On Demand (File), MPEG encoder, Video acquisition

Audio Codecs

Supports MP3, AAC, WMA, RM, FLAC, OGG and programmable with 7.1/5.1 down-mixing

Built-in serial digital audio SPDIF/EC958 input/output and PCM input/output

Built-in TDM/PCM/I2S ports with TDM/PCM mode up to 384kHz x32bits x 8ch or 96kHz x 32bits x 32ch and I2S mode up to 384kHz x 32bits x 8ch

Digital microphone PDM input with programmable CIC, LPF & HPE, support up to 8 DMICs

Built-in stereo audio DAC

Supports concurrent dual audio stereo channel output with combination of analog+PCM or I2S+PCM

Audio Formats MP3, OGG, WAV, AAC

Image Formats HD JPEG, BMP, GIF, PNG, TIF, SVG

Subtitles DVB, SRT, text MKV

General data

Dimensions (width x height x depth) 77 x 77 x 17 mm

Weight 0,15 kg

