Dual Core IPTV 4K OTT Set Top Box

AS920 Series

- Android 4.4
- HEVC H.265 4K2K Ultra High Definition Display
- H.264 HD Hardware Video Decoding
- Enhanced 3D GPU
- Optional WIFI 802.11n and Soft AP
- Plug and Play
- Easy Installation, Setup
- Remote Management

ACT AS920 IP Based High Definition Over-the-top (OTT) Set Top Box (STB) is an intelligent subscriber home device designed for ultimate user experience with support for various IPTV services including multicast, VOD, and Internet access.

AS920 series OTT STB is equipped with powerful Dual Core media processor in a light-weight, modern package with superior 3D Graphic Accelerator technology. It provides high quality and robust OTT services to allow advanced streaming protocols and enables broadcast experience over the top at the superior quality. The compact device offers high memory bandwidth, power efficiency, and optional 802.11n Wi-Fi performance required by the ever demanding streaming needs.

Together with ACT end-to-end HFC and FTTX network solution, the powerful AS920 residential OTT STB equipment enables Network Operators and Services Providers to offer their customers/subscribers with superior Audio and Video experience.

Specifications

Embedded Architecture

- SoC: Cortex A7 Dual Core CPU with MPEG decoder
- CPU: Single Core 1.2GHz, >3800DMIPS
- eMMC: 4GB
- DDRIII: 1GB
- OS: Android 4.4

Video

- Decoding Standard:
  -H.264/AVC MP & HP up to L4.2
  -H.265/HEVC MP up to L5.0 High Tier
- Video Format: PAL / NTSC
- Aspect Ratio: 4:3 and 16:9
- Out Definition:
  -480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 2160p
  -H.264 1080p@60fps
  -H.265 1080p@60 fps, 2160p@30fps (4K 2K)
- Video Output: CVBS, HDMI1.4

Audio

- Decoding Standard:
  -MPEG (Layer1,2), MP3
  -MPEG2 AAC
- Volume Control: 32-level adjustable, mute
- Audio Output: Mono / Stereo, HDMI1.4

Protocol

- IP Protocol: IPv4
- Network Protocol: TCP/IP, HTTP, POP3, DHCP, DNS, FTP, NTP, SSL, PPPoE, SNMP, SMTP
- Streaming Protocol:
  -IPTV Multicast (IGMP)
  -Video on Demand (RTSP/RTP control)
  -HLS
- Transport Protocol: TS over UDP, TS over RTP

Input and Output Interface

Front Panel

- 3× LED for IR and Power status
- 1× IR Receiver

Side Panel

- USB2.0 Host ×2 (Optional USB3.0 Host)

Rear Panel

- Micro SD Card ×1
- Digital Audio/Video Output: 1× HDMI
- Analog Audio/Video Output: 3.5mm Jack×1
- Ethernet Interface: 1×10/100M Base-T, RJ45
- 12V/1A DC IN Jack for Power Supply
- Power Switch ON/OFF

Internal

- WiFi: 802.11 b/g/n 2.4G Single Band 1T×1R

OSD

- 3D Graphic Acceleration
  - OpenGL E2.0/1.1
  - OpenVG1.1
- 2D Graphic Acceleration
- Colour: 32-bit ARGB for Video
- Alpha Blending: 256 levels
- OSD Flicker Filter
- Picture-in-Graphics

Application Software

- Embedded Browser:
  -HTML5.0, JavaScript 1.5, Webkit
  -Picture Format: GIF, JPEG, BMP, PNG, etc.
  -Multi-Langue Support
- Work with variety of Video Server, Support VCR Control and Trick-play Function
- Support for Multiple PID's Provided
- Support Remote Configuration and Diagnosis
- Support Online Software Upgrade
- Support JavaScript-based Network Games and 3D Motion Games with R707 Chubby Motion Sensor Remote Control

Others

- Dimensions: 85×85×21mm(W×D×H)
- Power Consumption: <10 W
- RF remote: 6-axis motion remote (optional)

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Ver. ACT_AS920_OTT STB_Datasheet_V1c_Nov_2014