

Quad-core IPTV 4K STB

AS940 Series



- **Linux**
- **H.265 4K 2K**
- **Enhanced 3D GPU**
- **Plug & Play**
- **Flexible audio video outputs**
- **Easy installation and setup**
- **Remote management**
- **Fully compatible with open international protocols**

Ascent's AS940 IP-based Set-Top Box (STB) supports H.265 high definition decoding and is designed for the ultimate user experience with support for IPTV services including multicast, VOD, and internet access.

This compact device delivers superior image quality with high memory bandwidth and power efficiency to meet the performance requirements of increasingly demanding streaming needs.

AS940 series STB is equipped with a powerful quad-core media processor in a lightweight, modern package to offer a flexible and personalized viewing experience. It provides high-quality and robust services to allow advanced streaming protocols enabling an excellent over-the-top broadcast experience.

Together with ACT end-to-end HFC and FTTX network solution, the powerful AS940 residential IPTV STB equipment enables Network Operators and Services Providers to offer their customers/subscribers with superior Audio and Video experience.

Key Features

- Compliant with H.265 decoding standards
- ARM Cortex A7 quad-core CPU
- Mali-450x4 GPU and 3D graphic acceleration
- MPEG-2 Layer 1, 2 and MP3 audio decoding
- OpenGL E2.0/1.1 and OpenVG 1.1 graphic acceleration
- H.265 4K 2K
- HDMI output
- Remote management

Specifications

Parameter	Description
Embedded Architecture	
SOC	ARM Cortex A7 quad-core CPU with MPEG decoder
GPU	Mali-450x4
FLASH	512 MB
DDR3	2 GB
OS	Linux
Video	
Decoding Standard	H.264 BP/MP/HP@ level 5.0 H.265 Main Profile@L5.0 High-tie
Video Format	PAL / NTSC / SECAM
Aspect Ratio	4:3 and 16:9
Out Definition	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 2160p
Video Output	CVBS, HDMI 4.1
Audio	
Decoding Standard	MPEG (Layer 1,2), MP3
Audio Output	Mono / stereo, HDMI 1.4
Protocol	
IP Protocol	IPv4/IPv6
Network Protocol	TCP/IP, HTTP, POP3, DHCP, DNS, FTP, NTP, SSL, PPPoE, SNMP, SMTP
Streaming Protocol	IPTV Multicast (IGMP) Video on Demand (RTSP/RSVP control)

Transport Protocol	HTTP
Input and Output Interface	TS over UDP, TS over RTP
Front Panel	3 × LEDs for IR, link, and power indicators 1 × IR receiver
Rear Panel	Ethernet interface: 1 × 10/100M Base-T, RJ45 1 × Micro SD Digital audio/video output: 1 × HDMI Analog audio/video output: 1 × 3.5 mm jack 12 V / 1 A DC IN jack for power supply Power switch ON/OFF
Side Panel	2 × USB 2.0 port × 2 1 × S/PDIF
OSD	3D graphic acceleration - OpenGL E2.0/1.1 - OpenVG 1.1 2D graphic acceleration Color: 32-bit ARGB for video Alpha blending: 256 levels OSD flicker filter Picture-in-Graphics
Application Software	Embedded browser: - HTML 5.0, JavaScript 1.5, Webkit - Picture format: GIF, JPEG, BMP, PNG, etc. - Multi-language support Works with a variety of video servers, supports VCR control and trick-play function Supports multiple PIDs Supports remote configuration and diagnosis Supports online software upgrade Supports JavaScript-based network games and 3D motion games with R707 Motion sensor remote control
Physical Characteristics	
Dimensions (W×D×H)	97 mm × 98 mm x 17.5 mm
Power Consumption	<10 W

Ordering Information

Model	Description
AS940-01-VN	Smart 4k IPTV STB

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