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MADE IN UKRAINE

MAG540
MAG540 W3 RDK

HIGH-PERFORMANCE LINUX SET-TOP BOXES POWERED BY AN AMLOGIC CHIPSET

MAG540/540w3 RDK are high-performance 4K and HEVC-enabled Linux set-top boxes intended for operators. The ARM Cortex-A35 quad-core CPU with a new Amlogic S905Y4 chipset ensures this model is more powerful than the previous generation devices. MAG540/540w3 RDK supports all the latest codecs, including H.265 and Dolby Digital Plus™.

On request, we can integrate the set-top box with middleware and DRM/CAS. Operators that used legacy MAG models can quickly integrate the device using the API. The set-top box features two USB ports and offers 100 Mbps Ethernet connectivity, while MAG540w3 RDK also supports wireless connections.

KEY FEATURES

- 4K and HEVC Support
- 4x ARM Cortex-A35
- Amlogic S905Y4-B
- 2 GB RAM / 16 GB eMMC
- Qubic design
- Linux OS
- 16 500 DMIPS
- Built-in Wi-Fi module*

*only in MAG540w3 RDK

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SPECIFICATIONS

HARDWARE

Chipset	Amlogic S905Y4-B, 16 500 DMIPS
Processor	ARM Cortex-A35 Quad-Core, 2 000 MHz
RAM / Flash	2 GB / 16 GB eMMC
GPU	ARM G31 MP2, 850 MHz. Supports OpenGL ES 3.2, Vulkan 1.1, and OpenCL 2.0

AUDIO AND VIDEO

Audio codecs	MPEG L1/L2/L3I, AAC-LC, HE AAC V1/V2, APE, FLAC, Dolby Digital Plus™
Video modes	PAL, NTSC, 576p, 720p, 1080p, 1080i, 2160p
Video codecs	MPEG1/2 MP@HL, MPEG4 part 2 (ASP), AV1, MJPEG streams, H.265 Main/Main 10@L5.1 High 2160p@60 fps (optional), H.264 AVC High@L5.1 2160p@30 fps, XviD, 3D video support
Video containers	TS, AVI, MPEG, MP4, MOV, MKV, M2TS, VOB
Image formats	JPEG, PNG, BMP, RAW
Subtitles	DVB, PGS, SRT, SSA/ASS, SUB, Teletext subs, WebVtt, Closed captions
Playlist formats	M3U, M3U8, PLS, CUE

SOFTWARE AND CAS/DRM

OS	Linux 5.4
DRM/CAS	Widevine (optional)
MW/UI	Embedded launcher which allows to run video applications: Comcast lightning apps and Youtube. Integration with operator's applications, customization or complete replacement of rootfs image is also available. Supports STB lock for Operator's signing key.

OTHER INTERFACES

Digital AV	HDMI 2.1
Ethernet	100 Mbps
USB	USB 2.0 x 2
Wi-Fi	Built-in 2T2R ac (MAG540w3 RDK only)

POWER

PSU	DC 5V, 2A

PHYSICAL CHARACTERISTICS

Width/depth/ height	120 x 78 x 21 mm
Weight	110 g

Side panel

Back panel