SKYWORTH

HPH07 Specification

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Revision History

Version	Date	Author	Description
1.0	20181106	KEVIN	First Issue
2.0	20190328	HOWARD	CUSTOMIZATION

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Abbreviations and Acronyms

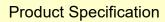| Items	Description
STB	Set–top Box
IPTV	Internet Protocol Television
OTT	Over the Top
HEVC	High Efficiency Video Coding
UHD	Ultra–High–Definition
RAM	Random Access Memory
DDR3	Double Data Rate–3
OSD	On Screen Display
DVB	Digital Video Broadcasting
FHD	Full High Definition
LED	Light–emitting Diode
PAL	Phase Alteration Line
IR	Infrared
PIP	Picture In Picture
MP@ML	MPEG Main Profile at Main Level

1   Overview

The Skyworth UHD Android Set–top Box (STB) offers subscribers the latest enhancements in OTT and IPTV. This STB gives consumers a rich home entertainment experience with high definition Video Player, the movie theater experience of surround sound and a variety of applications. The Box integration 802.11 b/g/n/ac WIFI, customers can link to internet easily.

2   Features Summary

2.1 Hardware

Items	Specification
Product Type	UHD Android OTT/IPTV
Main Chipset	Hi3798M V200 1.6GHz,15000DMIPS
SDRAM	2GByte DDR
Flash	8GByte EMMC
Software update	USB,OTA
Remote Control	Infra–Red 38KHz and Bluetooth 2.400GHz ~ 2.4835GHz
Audio Output	1*SPDIF Optical
Video Output	1*HDMI (19 PIN Female HDMI 2.0a)
Ethernet	1*RJ–45 (100M/10M)
WIFI	2.4G and 5G Dual Band (non–concurrent) 802.11ac 2X2 MIMO
Peripheral Interface	2*USB2.0 Max 500mA
Power Supply	12V/1A DC Input (Internal Diameter 2.1mm)
Chassis Material	92K Plastic Model
HDCP	HDCP

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2.2 Software

Items	Specification
Operator System	Android AOSP version 8
Middleware	Integration with Huawei EVP V6 hybrid video platform
UI	Sixty EaseTV STB UI customized for Telekom Srbija
Language	Serbian/English
SW Upgrade	USB/OTA which supported using Huawei upgrade server which is part of MSVS platform.
Remote management	TR069 protocol, Zero-touch configuration via Huawei TMS system
Streaming protocol	HLS, Dash and RTSP
DRM/CAS	Irdeto MDRM for OTT and Verimatrix for IPTV

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3   Connectivity

3.1 Front & L/R Side Panel

Appearance

size:110mmX110mmX24mm

Dimension:110mmX110mmX24 mm

Interface	Specification
LED Indicator	3*LEDS(Power:red/standby, yellow–green/work;Ethernet:red/break, yellow–green/link;IR+BlueTooth : yellow–green)
IR Sensor	38KHz IR
BlueTooth Sensor	2.4–2.48 GHz BlueTooth

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3.2 Right side

Appearance

Interface	Specification
USB	2*USB2.0 Max 500mA
TF Card	1*TF Card Reader

3.3 Rear panel

Appearance

Interface	Specification
POWER SWITCH	1*Power Switch
POWER IN	12V/1A DC Input,
Ethernet	1*100M/10M RJ45
HDMI	1* HDMI 2.0a

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SPDIF	1*SPDIF (optical)
A/V	1*3.5mm Phone Jack(Audio L/R, CVBS)

4   Mechanical

Items	Specification
Mechanical Type	92K plastic case
Cover color	Black
Front panel color	Black
Back panel color	Black
Dimension	110mm(W) x 110mm(D) x 24mm(H)
Weight	< 1kg

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5 Remote Control Unit

Appearance

Items	Specification
Control Type	Bluetooth and IR RCU, support voice
Key	43
Battery Type	2*1.5V AAA
Dimension	210*44*17mm

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6 Electric Performance

6.1 Main Chipset

Items	Specification
CPU	Hi3798MV200, Quad-Core A53 1.6GHz,15000DMIPS
Flash Memory	8GByte eMMC Flash.
SDRAM Memory	2GByte DDR
Security	Verimatrix Ultra

6.2 Video Decoder

Items	Specification
Decoder Capability	H.265 Main Profile Levle5 Main-tier encoding, Max 160 Mbit/s or 4Kx2K P60 decoding rate H.264 High Profile/Main Profile/Baseline Profile Level 4.2 encoding, Max 240 Mbit/s or 4Kx2K P30 decoding rate.1080P30 H.265/H.264 Multi-stream encoding HiVXE 2.0: VP9-10bit, VP8/6,REAL8/9/10,MPEG4/2,VC1 SP@ML,MP@HL,and AP@L3.
Aspect Ratio	4:3, 16:9
Video Resolution	480i/480p,576i/576p/720p/1080p

6.3 Audio Decoder

Items	Specification
Audio Decode	Audio decoder support MPEG L1/L2 AAC-LC and HE AAC V1/V2 decoding
Output	Stereo/RIGHT/LEFT

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6.4 Composite Video Output

Items	Specification
Video Bandwidth	5.5MHz(−3dB)
Video Impedance	75Ω，±5%
Video Voltage Level	1.0 Vp−p，±5%

6.5 Audio Output

Items	Specification
Audio Freq. Range	20 ~ 20KHz
Audio Impedance	600Ω
Audio Voltage Level	> 2V rms(5.6Vp−p)

6.6 WIFI

Items	Specification
Standard	802.11 b/g/n/ac, 2T2R MIMO
Frequency Range	2.4G and 5G
Antenna	2*internal antenna
Transmission	867Mbps
Wifi security	WPA2 AES,WEP

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6.7 Power Supply

Items	Specification
DC Input	12V/1A DC Adapter
Power Line Length	1.5m
Input power range	100–240V 50/60Hz

6.8 Environment

Items	Specification
Input Voltage	AC 100–240V, 50Hz–60Hz
Operating temperature	0 ~ 45℃
Operating humidity	5%–90%
Storage temperature	–10~70℃
Storage humidity	0–95%

7 Packing

Items	Specification
Type	Paper card packaging
Outline Size	Customization
Gift box	Customization
Weight	TBD

8   Accessories

Items	Specification
Power Adapter	1x 12V/1A DC Adapter
HDMI cable	1*HDMI cable 1.5m
Ethernet cable	1* Ethernet cable 3m
Remote control	1* Bluetooth and IR RCU, support voice, with batteries
User manual	1*User Manual printed in color, based on document provided by Telekom Srbija. 1*Quick Start Guide, Serbian and English, colorful printing, Serbian first.
Mini AV	1*Mini AV cable with1.5m

9   Certification

Items	Specification
CE	EMC, Safety
HDMI	HDMI 2.0 certification included with HDCP
Verimatrix	Verimatrix Ultra certification
Dolby	Dolby digital certification
Others	REACH, WEEE, ROHS