



# SML-5045 / 5045W

# Portable RDK-based UHD Set-Top Box with AV1 support

- High-performance Amlogic S905Y4 processor
- UHD AV1 decode
- UHD HEVC and VP9 decode
- HDR support
- Improved RDK-based performance
- HDMI 2.1 output with HDCP 2.3
- Proven security for UHD content

The SML-5045 is a compact RDK-native set-top box offering incredible performance and capable of delivering the most advanced interactive services with crystal clear and high-resolution picture directly to your customers.

Advanced Amlogic S905Y4 processor combined with Reference Design Kit capabilities delivers seemingly unlimited performance. SML-5045 couples its processing power with the latest codecs support, employing HEVC, AV1 and VP9 to deliver stunning 4K video content at up to 60 frames per second, and offering adaptive bitrate streaming.

SML-5045 provides a cost-effective and flexible platform enabling operators to enhance their services and implement profitable service strategies.

# **Technical Specification**

#### **System Processor**

CPU: AmLogic S905Y4 Quad-core 64-bit ARM® Cortex™-A35 GPU: ARM Mali-G31 MP2

#### Memory

DDR4 4G 256Mx16 1866/2400Mbps: 1GB DDR4 (2×512MB) DDR4 8G 512Mx16 2400 Mbps: 2GB DDR4 (2×1GB) Flash eMMC: 4GB / 8GB / 16GB

#### Ports

USB: 1x USB 2.0, STB power via USB during reflash HDMI: 2.1 HDCP 2.2/2.3, HDR (Dolby Vision, HDR10+, HDR10, HLG HDR) Ethernet: 1xRJ45 port, 10/100 Mbps Mini AV: 3.5×17 mm miniJack DC Jack: 5.5 × 2.1 × 10 mm S/PDIF (Optionally)

#### **Internal interfaces**

Debug UART: 3.3V TTL UART 2.54 mm pin header Pinhole button: Update push button behind Mini-AV port

### Security

DRM: Widevine L1, PlayReady

### Video and audio

Video Decoding: AV1 MP-10@L5.1 up tp 4Kx2K@60 VP9 Profile-2 up to 4Kx2K@60fps HEVC: H.265 MP-10@L5.1 up to 4Kx2K@60fps; AVS2-P2 Profile up tp 4Kx2K@60fps; MPEG-4 H.264 AVC HP@L5.1 up tp 4Kx2K@60fps; MPEG-4 Part 2: ASP@L5 up to 1080p@60fps; WMV/VC-1 SP/MP/AP up to 1080p@60fps; AVS-P16 (AVS+)/AVS JiZhun Profile up to

1080p@60fps; MPEG-2 MP/HL up to 1080p@60fps; MPEG-1 MP/HL up to 1080p@60fps; RealVideo 8/9/10

Video resolution:

CVBS 480i/576i standard definition output HDMI supports output modes up to 4Kx2Kp60

Audio Decoding: MP3, AAC, WMA, RM, FLAC, Dolby Audio

### STB complies with the following standards

FCC ID: 2ASFLSML5045W

C IC ID: 24800-SML5045W

Specific codecs, formats and technologies are supported subject to the purchase of additional licenses and royalty payments.

#### Wi-Fi

SML-5045: Not Available SML-5045W: 802.11ac or ax (depending on WiFi module), 2.4GHz / 5GHz, 2T2R, 2xPCB antennas on a wire regardless a WiFi module

## BT

SML-5045: Not Available SML-5045W: 5.0 or 5.2 (depending on WiFi module)+ BLE UART bitrate up to 2 Mbps

### **Front Panel**

LED: 1x Bicolor (red/green) LED IR Receiver: 38 KHz

## **Remote control**

SML-5045: IR SML-5045W: IR, BLE

#### **Power Adaptor**

AC IN: 100-240V, 50/60Hz DC OUT: 12V-1.0A PSU Sockets: EU, US, UK, Brazil

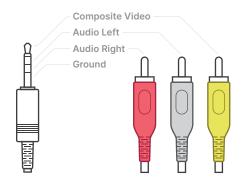
# **General parameters**

Weight (g): 130 Dimensions (mm): 110.5 × 106.5 × 33

# File formats: \*.mkv,\*.wmv,\*.mpg, \*.mpeg, \*.dat, \*.avi, \*.mov, \*.iso, \*.mp4, \*.rm and \*.jpg file

# Image Decoding: MJPEG and JPEG unlimited pixel resolution decoding (ISO/IEC-10918)

Composite output and analog stereo audio output combined into a single 3.5×17 mm TRRS connector mini-jack:



- **C** Complies with all applicable EC directives
- Class III of IEC Protection Classes (IEC 61140)