

# Amlogic S905X Quad Core Development Board Open Source DIY TV Box

Product Parameters				
Model	TVi	TVim	TGVim	TVi Lite
PCBA Dimensions	82.0 x 57.5 x 11.5 mm			
Processor	Amlogic S905X 2.0 GHz 64Bit Quad Core ARM Cortex-A53 750MHz+ Penta Core Mali-450 GPU HW UHD H.265/VP9 60fps 10bit video decoder HDR10 and HLG HDR video processing			
LAN	10/100M			
DDR3 (1866Mbps)	1GB	2GB	2GB	1GB
EMMC V5.0	8GB	8GB	16GB	8GB
WIFI	AP6212	AP6212	AP6335	AP6181
Bluetooth	●	●	●	-
HDMI CEC	●	●	●	-
TVI (Extra Power IN)	●	●	●	-
USB Type-C	USB2.0 OTG & 5V DC IN			
HDMI 2.0a	Type-A Female, up to 4K@60Hz			
Buttons	x3	x3	x3	x2
USB2.0 HOST	x2	x2	x2	x2
TF Card Slot	●	●	●	●
RTC & RTC Battery Port	●	●	●	-
IR Receiver	2 Channels			1 Channel
40Pins 2.54mm GPIOs	USB x 2, I2C x 2, UART x 2, SPDIF, PWM, ADC, GPIOs			
Mounting Holes	Size M2 x 4			
Android 6.0	●	●	●	●
Ubuntu	●	●	●	-
OpenELEC	●	●	●	-
MOQ	1000			2000

1. very small, only 82.0 x 57.5 x 11.5 mm and compact structure is adopted
2. USB Type-C Slot as power supply, it seems that TVI is the first OTT box using USB Type-C Slot
3. Imported Molex Brand for TF card slot
4. Dual PD Channel Solutions for Infrared Receiver Module (IRM)
5. DDR/EMMC use the original premium brands named SkHynix / Samsung

## ● about the SMD of TVI

1. strictly follow the rules of Electrical Specification, SMD with ESD and Common Mode Choke
2. strictly follow the rules of HDMI 4K Specifications, adopt the independant LDO power module to supply electricity source.
3. PCB with 6 layers for zedoary process. Others usually use 4 layers PCB

## ● about the design of TVI

1. 3 types of Operating system were built, they are Android 6.0, Ubuntu and OpenELEC
2. add the RTC module, realize the memory of time when power off and IoT expansion

3. add independantly MCU module, support the starting-up funtion of device through IRM and Hardware Security Function
4. Support power-on by alarm ( can set the required time to powr-on whenever you need)
5. TVI is of expansibility, our TVI is for OTT+SBC and OTT+IoT, hardware and software open source and technology support. No limited to secondary developers.
6. in the near future, we will develop the 3G/4G module, DVT-T2, Intelligent Housing IoT expansion modules, and other accessories.

