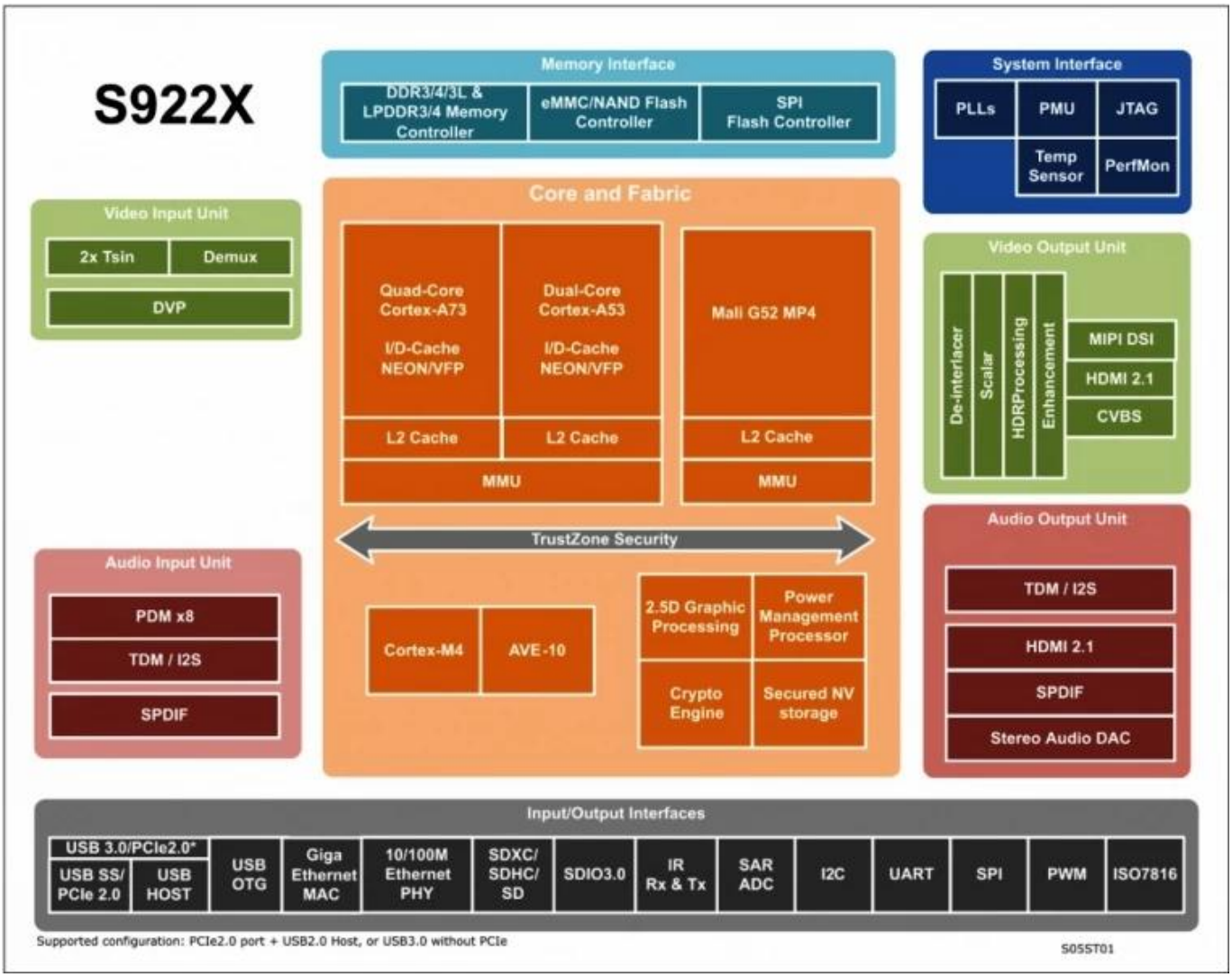
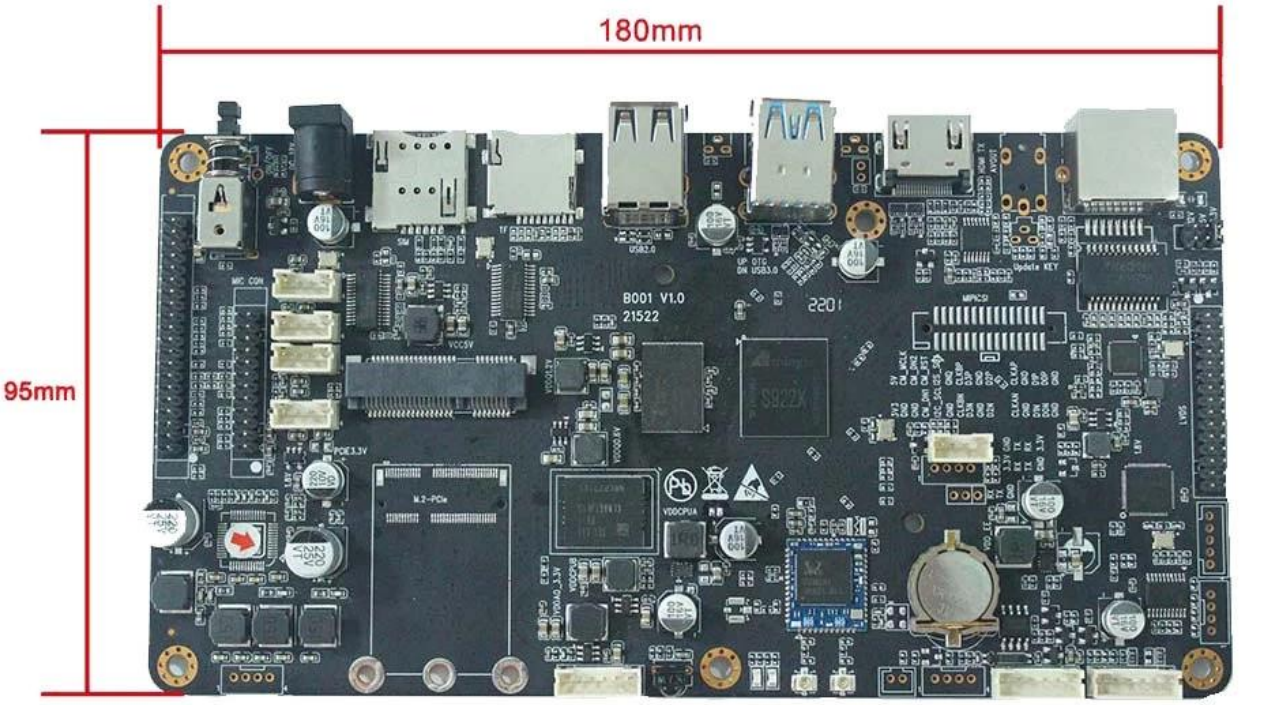
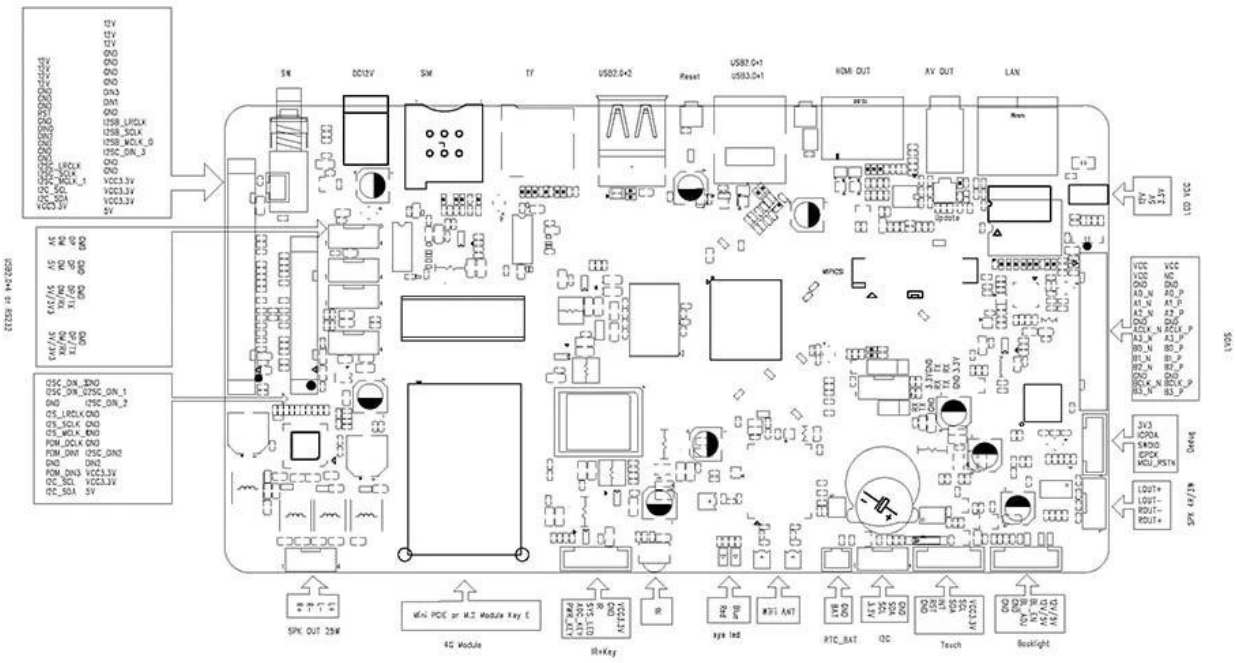
[illegible] Android TV, [illegible]

[illegible]	
[illegible]	[illegible] Android Amlogic A311D
[illegible]	Amlogic A311D Quad Core ARM Cortex A73 [illegible] Dual Core ARM Cortex A53 1.98Ghz
[illegible]	ARM Mali-G52 MP4 (6EE) OpenGL ES 3.2, [illegible] 1.1 [illegible] OpenCL 2.0
[illegible]	DDR4 2GB/4GB
[illegible]	eMMC 16GB ([illegible] 128GB)
[illegible]	[illegible] Android 9.0
[illegible]	
[illegible]	[illegible] 4K H265 10Bit, H.264, AVS, MPEG-2 [illegible]
[illegible]	[illegible] MPEG1, MPEG2, MPEG4, H.264, WMV, MKV, TS, flv [illegible] MP3 [illegible] JPG, JPEG, BMP, PNG, GIF [illegible]
[illegible]	
[illegible]	1 [illegible] LVDS 40 [illegible] 2.0 [illegible]. [illegible] 8 [illegible], 10 [illegible]; [illegible] HDMI 1 [illegible]; [illegible] AV 1 [illegible]
[illegible]	x1, MIPI [illegible]
[illegible]	[illegible] 25W@2 [illegible] 4 [illegible] 2.5 [illegible]. [illegible] 3W@2
[illegible]	x1, [illegible] 10M/100M WIFIBT, 2.4G single band [illegible] 2.4G/5G dual band [illegible] [illegible] PCIE (4G) x1 [illegible] M.2 (4G) x1 [illegible]
[illegible] USB2.0	USB OTG x1 ([illegible]) [illegible] x7
[illegible]	x2, [illegible] 6 [illegible] 2.0 [illegible]
[illegible]	x1, [illegible] 7 [illegible] 2.0 [illegible]. [illegible] LED [illegible]
[illegible]	[illegible] x4
[illegible] TF	x1
[illegible]	x1
[illegible]	[illegible]
[illegible]	
[illegible]	[illegible] 12V, 2.5DC

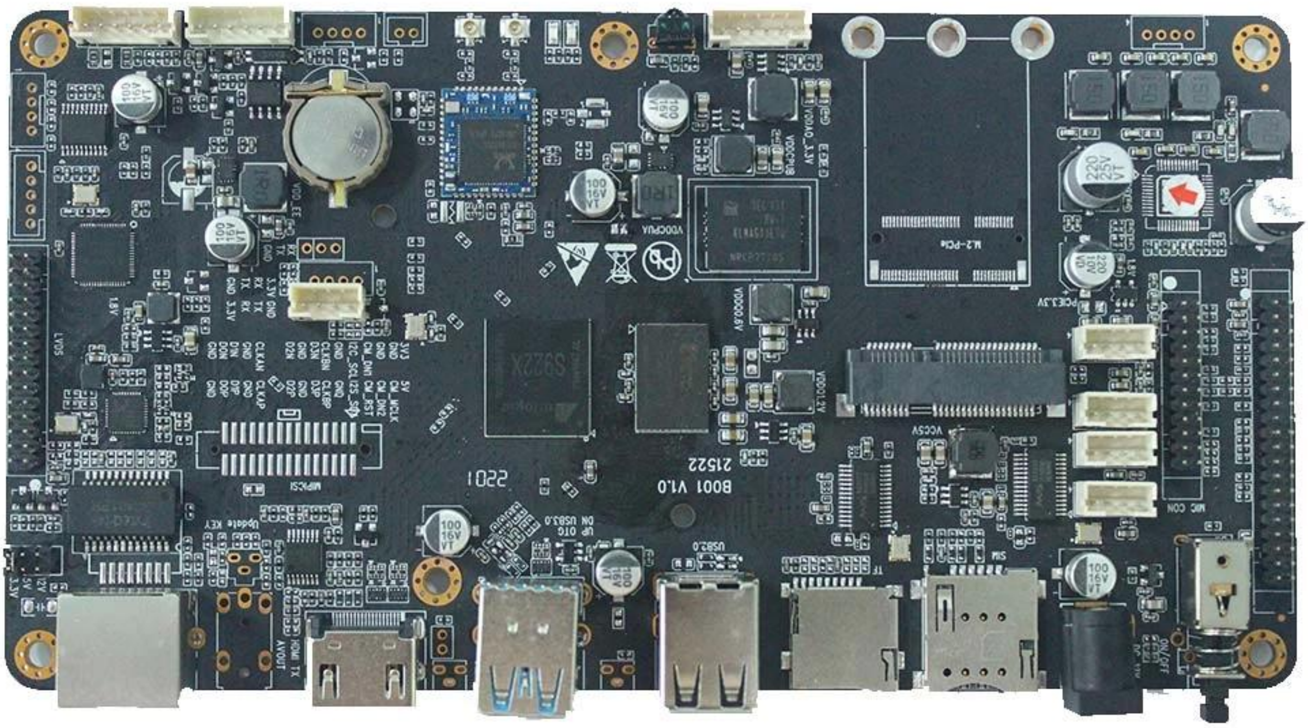

S922X
Memory Interface
DDR3/4/3L & LPDDR3/4 Memory Controller
eMMC/NAND Flash Controller
SPI Flash Controller
System Interface
PLLs
PMU
JTAG
Temp Sensor
PerfMon
Video Input Unit
2x Tsin
Demux
DVP
Core and Fabric
Quad-Core Cortex-A73
I/D-Cache NEON/VFP
Dual-Core Cortex-A53
I/D-Cache NEON/VFP
Mali G52 MP4
L2 Cache
L2 Cache
L2 Cache
MMU
MMU
TrustZone Security
Cortex-M4
AVE-10
2.5D Graphic Processing
Power Management Processor
Crypto Engine
Secured NV storage
Video Output Unit
De-interlacer
Scalar
HDRProcessing
Enhancement
MIPI DSI
HDMI 2.1
CVBS
Audio Input Unit
PDM x8
TDM / I2S
SPDIF
Audio Output Unit
TDM / I2S
HDMI 2.1
SPDIF
Stereo Audio DAC
Input/Output Interfaces
USB 3.0/PCIe2.0*
USB SS/ PCIe 2.0
USB HOST
USB OTG
Giga Ethernet MAC
10/100M Ethernet PHY
SDXC/ SDHC/ SD
SDIO3.0
IR Rx & Tx
SAR ADC
I2C
UART
SPI
PWM
ISO7816
Supported configuration: PCIe2.0 port + USB2.0 Host, or USB3.0 without PCIe
S05ST01



180mm*95mm*20mm



SW
DC12V
SIM
TF
USB2.0+2
Reset
USB2.0+1
USB3.0+1
HDMI OUT
AV OUT
LAN
SPK OUT 25W
4G Module
IR+Key
eye led
RTC_BAT
I2C
Touch
Backlight



Amlogic S922X Android Dvelopment Board □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ - □□□□□□□□□□□□□□□□□□□ LCD □□□□□□□□□□□□□□□□□□□□□ Amlogic S922X 12nm □□ UHD 4K @ 60fps □□□□□□□□□□□□□□□□□□□□□ H.265 10 □□□, H.264 □□□ AVS □□□□□□□□□□□□□□□□ □□□□□□□□□□ □□ HDR10 □□□ HLG □□□□□□□□□□□□□□□□□□□ UART □□□ USB □□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□ Bluetooth, WIFI, 4G □□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ AV, □□□□□□□□□□□□□□□ SD □□□ □□□ □□ □□□□□□□□□□□□□□□□□□□□□/□□□□□□□□□□□□□□ □□□□□□□□□□□□ 3 □□□□ □□□□□□□□□□□□□/□□□□□□□□ □□□□□□□□□□□□□□/□□ □□□□□□□□□□□□□ AI □□□ □□ □□□□ □□□□□□□ □□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□

(1) □□□□□□□□□□□□□□□□□□□□□

- □□□□□□□□□□□□□□□ LVDS 1 □□□□ (40 □□□)
- □□□□□□□□□□□□□□□ HDMI 1 □□□□
- USB2.0 5 □□□□
- 4 □□□□□□□□□□□ RS232 (□□□□□□□□□□□□□□□□□□□□□□ USB2.0 □□□□□□□□□□□□□□□□)
- MIPI CSI 1 □□□□
- □□□□□□□□□ AV 1 □□□□
- 1 □□□□ I2C

- I2SC/IS2B
- [illegible] 25W 1 [illegible] 3W
(2) [illegible]
- [illegible], WiFi [illegible] 4G [illegible]
(3) [illegible]
- [illegible]
- [illegible]
- [illegible] U [illegible]
- [illegible] [illegible] [illegible]

[illegible]

[illegible]
(1) [illegible] Quad Core ARM Cortex-A73 [illegible] Dual Core ARM Cortex-A53
(2) [illegible] ARMv8-A [illegible] Neon [illegible] Crypto
(3) [illegible] L2 [illegible]
(4) Build-in Cortex-M4 core [illegible]
(5) [illegible] TrustZone [illegible]
(6) [illegible] QoS [illegible]

[illegible] 3 [illegible]
(1) GPU ARM Mali-G52 MP4 (4ppc)
(2) [illegible] 8, [illegible] 2xdual, [illegible] 6x8 (EE)
(3) [illegible]
(4) [illegible] OpenGL ES3.2, Vulkan 1.0 [illegible] OpenCL 2.0

CODEC [illegible]/[illegible]
(1) Amlogic Video Engine (AVE) [illegible]
(2) [illegible] 4Kx2K@60fps1x1080P@60fps
(3) [illegible] "[illegible]" [illegible]
(4) [illegible]/[illegible]
[illegible] VP9-2 [illegible] 4Kx2K@60fps
H.265 HEVCMP-10@L5.1 [illegible] 4Kx2K@60fps
[illegible] AVS2-P2 [illegible] 4Kx2K@60fps
H.264 AVCHP@L5.1 [illegible] 4Kx2K@30fps
H.264 MVC [illegible] 1080P@60fps
MPEG-4 ASP@L5 [illegible] 1080P@60fps (ISO-14496)
WMV/VC-1 SP/MP/AP [illegible] 1080P@60fps
AVS-P16(AVS) /AVS-P2 [illegible] JiZhun [illegible] 1080P@60fps
MPEG-2 MP/HL [illegible] 1080P@60fps(ISO-13818)
MPEG-1MP/HLupto1080P@60fps(ISO-11172)
RealVideo 8/9/10 [illegible] 1080P@60fps
[illegible]
MJPEG [illegible] JPEG [illegible] (ISO/IEC-10918)
[illegible] JPEG [illegible] [illegible] [illegible]
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(5) [illegible]/[illegible]
[illegible] JPEG [illegible] H.265/H.264 [illegible]/[illegible]
[illegible] JPEG
[illegible] H.265/H.264 [illegible] 1080P@60fps [illegible]

[illegible]

(1) [illegible] HDMI 2.1 [illegible] [illegible] PHY [illegible] CEC, Dynamic HDR [illegible] HDCP 2.2,
[illegible] 4Kx2K@60
(2) [illegible] CVBS 480i/576i
(3) [illegible] SD/HD/FHD [illegible]: 480i/p, 576i/p, 720p, 1080i/p [illegible] 4Kx2K
(4) [illegible] MIPI DSI 4 [illegible] 1920 * 1080 [illegible]

[illegible]

[illegible]
(7) [illegible] Quad Core ARM Cortex-A73 [illegible] Dual Core ARM Cortex-A53
(8) [illegible] ARMv8-A [illegible] Neon [illegible] Crypto
(9) [illegible] L2 [illegible]
(10) [illegible] Cortex-M4 [illegible]
(11) [illegible] TrustZone
(12) [illegible] QoS [illegible]

[illegible] 3 [illegible]
(5) GPU ARM Mali-G52 MP4 (4ppc)
(6) [illegible] 8, [illegible] 2xdual, [illegible] 6x8 (EE)
(7) [illegible]
(8) [illegible] OpenGL ES3.2, Vulkan 1.0 [illegible] OpenCL 2.0

CODEC [illegible]/[illegible]
(6) Amlogic Video Engine (AVE) [illegible]
(7) [illegible] 4Kx2K@60fps1x1080P@60fps
(8) [illegible] "[illegible]" [illegible]
(9) [illegible]/[illegible]
[illegible] VP9-2 [illegible] 4Kx2K@60fps
H.265 HEVCMP-10@L5.1 [illegible] 4Kx2K@60fps
[illegible] AVS2-P2 [illegible] 4Kx2K@60fps
H.264 AVCHP@L5.1 [illegible] 4Kx2K@30fps
H.264 MVC [illegible] 1080P@60fps
MPEG-4 ASP@L5 [illegible] 1080P@60fps (ISO-14496)
WMV/VC-1 SP/MP/AP [illegible] 1080P@60fps
AVS-P16(AVS) /AVS-P2 [illegible] JiZhun [illegible] 1080P@60fps
MPEG-2 MP/HL [illegible] 1080P@60fps(ISO-13818)
MPEG-1MP/HLupto1080P@60fps(ISO-11172)
RealVideo 8/9/10 [illegible] 1080P@60fps
[illegible]
MJPEG [illegible] JPEG [illegible] (ISO/IEC-10918)
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(10) [illegible]/[illegible]
[illegible] JPEG [illegible] H.265/H.264 [illegible]/[illegible]
[illegible] JPEG
[illegible] H.265/H.264 [illegible] 1080P@60fps [illegible]

[illegible]
(5) [illegible] HDMI 2.1 [illegible] PHY [illegible] CEC, Dynamic HDR [illegible] HDCP 2.2,
[illegible] 4Kx2K@60
(6) [illegible] CVBS 480i/576i
(7) [illegible] SD/HD/FHD [illegible]: 480i/p, 576i/p, 720p, 1080i/p [illegible] 4Kx2K
(8) [illegible] MIPI DSI 4 [illegible] 1920*1080 [illegible]

[illegible] Android TV Box [illegible]
[illegible]

[illegible]

[illegible] Android TV [illegible]
[illegible]
[illegible]
[illegible]

[illegible]

[illegible] Android TV [illegible] HD, Full HD [illegible] 4K [illegible]

[illegible]

[illegible] Netflix, YouTube, Hulu [illegible] Android TV [illegible]

[illegible]

[illegible] Android TV [illegible] Google Play Store [illegible]

[illegible]

[illegible] Android TV [illegible]

[illegible]

[illegible] Android TV Box [illegible] HDMI, USB, Bluetooth [illegible] Wi-Fi [illegible]

[illegible]

[illegible] Android TV Box [illegible] Android [illegible]

[illegible]

[illegible]

[illegible]

[illegible] [[illegible] Android]() [illegible] Android TV [illegible]