* Model: R58X, 8K Ultra HD media player, Arm-based PC and Edge computing device **(Real 8K output, 7680*4320, HDMI 2.1, 12Gbps)**
*** OS: Android 12, Ubuntu 20.04, Debian 11, Buildroot**

* Chipset: Rockchip 3588 **(8 nm made chipset, 8 cores CPU, 8EE GPU, 2.4Ghz)**
* CPU: Quad-core Cortex-A76 and Quad-core Cortex-A55 with separately NEON
* **NPU: 6TOPs** supports INT4/INT8/INT16/FP16 hybrid operation
* TensorFlow/MXNet/PyTorch/Caffe can be easily converted
* Memory: 4G DDR, 32G eMMC (Maxium DDR is 16GB)
* Storage: eMMC5.1, SDIO3.0, M.2 PCIE3.0 M-Key, SATA3.0 7pin
* Front panel: USB 3.0, USB2.0 x2, GPIO USB C x2, Power button
* Rear panel: DC input, **HDMI input, HDMI 2.1 output, DP output,** G-LAN network x2, RS485/RS232
* Dual WiFi antenna 2.4G/5G 2T2R a/b/g/n/ax mimo (Optional WiFi 6)
* **Dual G-LAN network 1000Mbps x2**
* Video output: HDMI 2.1 (7680*4320) and DP1.4 (Display Port) HDCP2.3
* Camera: MIPI CSI 2Lane
* Industrial connectors: I2C port, GPIO*6, RS232, RS485
* Audio: support MIC and audio jack, 1.25mm 4pin CON

* H.265 and VP9 decoder by 8K@60fps, H.264 decoder by 8K@30fps
* AV1 decoder by 4K@60fps, also support H.264 and H.265 encoder by 8K@30fps
* JPEG-codec support YUV400/YUV411/YUV420/YUV422/YUV440/YUV444

android 12 ubuntu BuildRoot debian

RK3588 8K ULTRA HD HDMI 2.1 DisplayPort AV1 VP9 TensorFlow PYTORCH mxnet Caffe MODELS