

EMV6058 is a new-generation SoC provided by ESWIN for the UHD smart display market. It supports up to 8K@30fps decoding, 4K 144Hz HDMI 2.1 signal input, and has the ability to simultaneously process 3 channels of TS demultiplexing with a maximum 4K resolution.

With the support of 4K 144Hz and 4K1K 288Hz panels, EMV6058 provides immersive gaming experience. By dedicate low-latency data path and full function HDMI2.1 ports, end users can truly enjoy the pleasure brought by technologies such as VRR (40 - 144Hz), ALLM, and Free Sync.

EMV6058 adopts a quad-core A75 CPU, ARM G57 MC1 GPU, and an APU with 1.2TOPS computing power. At the same time, it is equipped with HDMI 2.1, USB3.0, PCIe2.0, and Gigabit Ethernet ports, etc., making the connection between the TV and external devices effortless.

Features

CPU	<ul style="list-style-type: none">• Quad core ARM Cortex-A75 CPU
GPU	<ul style="list-style-type: none">• ARM Mali-G57 MC1
NPU	<ul style="list-style-type: none">• Max 1.2TOPS• Support AIPQ, AI Gesture recognition
Video Out	<ul style="list-style-type: none">• Support 4K1K 288Hz panel, 4K2K 144Hz panel, VRR 40Hz-144Hz
Video In	<ul style="list-style-type: none">• 4*HDMI 2.1• 1* DTMB IN interface
Audio	<ul style="list-style-type: none">• 1*SPDIF out• PDM in (PDM 4 data channels) for FF sampling reverberation/echo cancellation• I²S in*4 for Audio processor loop back• I²S out*4 data channel• Line out Analog output (earphone support)
PQ	<ul style="list-style-type: none">• Support AIPQ• Super Resolution (SR) support YUV444/422 10-bit• Support AISR, any resolution up to 4K 60Hz• Support Sharpness Enhancement• Support Local Dimming and Boosting
Memory Interface	<ul style="list-style-type: none">• 64-bit DDR4• eMMC5.1
Connectivity	<ul style="list-style-type: none">• UART, I²C, SPI, 10M/100M Ethernet, GMAC• SAR-ADC, PWM, IR Receiver• USB3.0, USB2.0, PCIe2.0

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