

MediaTek Pentonic 800

Next-generation premium 4K HDR TV SoC, unleashing powerful AI picture quality, impressive UI, and immersive gaming experiences

Incredible AI-Display

MediaTek's AI processor provides industry-leading quality enhancements that elevates all content into extraordinary experiences. Enjoy perfect restoration of fine-details and elimination of noise or artifacts from broadcasts and streams.

AI-Super Resolution (AI-SR) 3.0

- Generationally improved upscaling
- Gaming optimization
- AI Noise Reduction (AI-NR)

AI-Contrast 2.0

- AI SDR-to-HDR

AI-Picture Quality Scene Recognition 2.0+

- Scene based MEMC and greater global PQ controls

AI-Picture Quality Object Recognition 2.5+

- AI-object: face and depth detection with greater PQ control

Ideal for Gaming

Game on 4K HDR displays with epic speeds, vivid visuals, and benefit from reliable, low-latency wireless connectivity.

- 4K HDR displays with VRR up to 165Hz
- Supports global gaming HDR standards:
 - 4K120Hz Gaming in Dolby Vision
 - HDR10+ Gaming
- Reliable MediaTek Filogic Wi-Fi with extreme speeds
- Wi-Fi/BT hybrid coexistence technology enables gamepads, headphones, and Wi-Fi to connect without interruption



Exquisite UI

MediaTek graphics technologies deliver stunning 4K-quality visuals with efficient resource utilization, optimizing power-efficiency.

Brilliant for Broadcast and Streaming Media

Ideal for next-generation smart TVs, smart monitors, commercial displays, and embedded large displays, with a wide-range of media.

- Integrated 4K MEMC, TCON
- Industry-leading video decoding engine, including VVC, AVS3 and AV1
- Global HDR standards including Dolby Vision IQ with Precision Detail and HDR10+ Adaptive
- Audio engine including Dolby Atmos & Dolby Atmos FlexConnect
- Global demod
- High resolution audio (Hi-Res)

Upgraded Interfaces

Supports for up to 4 high-speed video/audio input interfaces, and panel display output interface, delivering a true 4K HDR with high-frame rate visual experience.

- HDMI 2.1b FRL 48Gbps
- DP 1.4a
- VB1 and eDP panel interface

<https://www.mediatek.com/products/digital-tv/mediatek-pentonic-800>

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