

MediaTek Pentonic 1000

Flagship 4K 120Hz SoC with integrated MEMC, 8-screen Intelligent View and powerful AI processor

Flagship 4K TV Experiences

MediaTek-designed all-in-one chip featuring powerful CPU, GPU and AI processors, integrated Motion Estimate and Motion Compensation (MEMC) and exclusive, smarter technologies.

- Up to 4K at 120Hz HDR displays and video decode
- Auto Low Latency Mode and Variable Refresh Rate up to 4K at 144Hz for gaming
- Integrated Voice Assistant Support
- 4K on-screen display (OSD) UI

Industry-leading AI-image enhancement

On-chip AI engine improves performance and power-efficiency compared to other multi-chip platforms.

- Upgraded AI super resolution technology with edge smoothing and detail reconstruction
- Latest AI picture quality scene recognition technology
- Newest AI picture quality object recognition technology with depth and richer picture quality enhancement

Ultra-fast Connectivity

Low-latency cloud gaming and 4K streaming without interruption.

- Up to Wi-Fi 6/6E
- HDMI 2.1 FRL 48Gbps support
- 4X USB connectivity

MediaTek Intelligent View

Exclusive Technology showcasing a “display wall” of different media sources in a single panel.

- Up to 8 views in one display; put big TVs to better use.
- Watch multiple streams/inputs on one ‘display wall’
- 4X more content shown vs competitor alternatives
- Picture quality adjustments can be applied to every view, not just the main input
- Switching between primary and sub-views is seamless
- Move sub-views while the content inside plays without interruption

Global Video and TV Decoding Built-in

Leads the industry with new video codecs and global TV broadcast standards, including the latest ATSC 3.0, in a single platform.

- First wave with VVC (H.266) support
- Latest AV1 support for streaming
- Commonly used HEVC, VP9, AVS3 standards
- Global TV broadcast demodulator platform