MediaTek Pentonic 2000
Flagship 8K 120Hz TV SoC with integrated MEMC, AI Engine & multiple Picture-in-Picture

World’s First 7nm-class TV SoC
World’s first commercial TV SoC using TSMC N7 (7nm-class) process
• Unparalleled performance & power efficiency
• Continuing MediaTek smart TV leadership

Flagship Features & Incredible Performance
Leading the industry with our in-chip 8K 120Hz MEMC and AI processor, and the most powerful CPU and GPU combination.
• Up to 8K resolution at 120Hz refresh rate
• In-chip 8K 120Hz MEMC
• In-chip multi-core AI engine
• Industry’s most powerful CPU & GPU in a Smart TV
• Ultra-fast UFS 2.1 storage

Industry-leading AI-image Enhancement
In-chip AI engine improves performance and power-efficiency compared to other multi-chip platforms.
• AI-Super Resolution 2.0+ with detail creation
• AI-Picture Quality Scene Recognition 2.0
• AI-Picture Quality Object Recognition 3.0 with richer PQ enhancement

Global Video and TV Decoding Built-in
Leading the industry with new video codecs and global TV broadcast standards, including the latest ATSC 3.0, in a single platform.
• First to market with VVC (H.266) support
• Latest AV1 support for streaming
• Commonly used HEVC, VP9, AVS3 standards
• Global TV broadcast demod platform

MediaTek Intelligent View
Exclusive Technology showcasing a “display wall” of different media sources in a single panel.
• Multiple views in one display; put big TVs to better use!
• Watch multiple streams/inputs on one ‘display wall’
• More content shown vs previous generation
• Picture quality enhancements can be applied to every view, not just the main input
• Switching between primary and sub-views is a seamless experience
• Move sub-views while the content inside still plays without interruption

Integral Voice Assistant Support
Industry-leadership in voice assistant devices and smart home integration
• Up to 4X directional microphones
• AI-Voice technologies
• Use voice for direct TV control or engage with voice assistant services

Ultra-fast Connectivity
Enabling low-latency Cloud gaming and 8K streaming without interruption.
• Up to Wi-Fi 6E
• Supports 5G option
• HDMI 2.1 support
• USB connectivity

https://i.mediatek.com/digital-tv
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