ELEVATING PREMIUM INTO NEW DIMENSIONS

MediaTek Dimensity 8100 | MediaTek Dimensity 8000

Incredible TSMC 5nm-class Smartphone Chip

The MediaTek Dimensity 8100 & 8000 are built using TSMC N5 (5nm-class) production, giving users exceptional power-efficiency and longer battery life.

Best-in-class HFR Gaming Experience

Extreme performance with incredible power-efficiency for intense high frame-rate gaming sessions that just keep going.

- Super-Cores - 4x Arm Cortex-A78
- Efficiency Cores - 4x Arm Cortex-A55
- Over 25% better CPU power-efficiency vs previous generation Dimensity
- UFS 3.1 storage and quad-channel LPDDR5
- Arm Mali G610 MC6 GPU
- MediaTek HyperEngine 5.0 gaming technologies

MediaTek Dimensity 8100	MediaTek Dimensity 8000
Arm Cortex-A78 up to 2.85GHz Up to 20% GPU Frequency Boost in Games	Arm Cortex-A78 up to 2.75GHz

MediaTek Imagiq 780

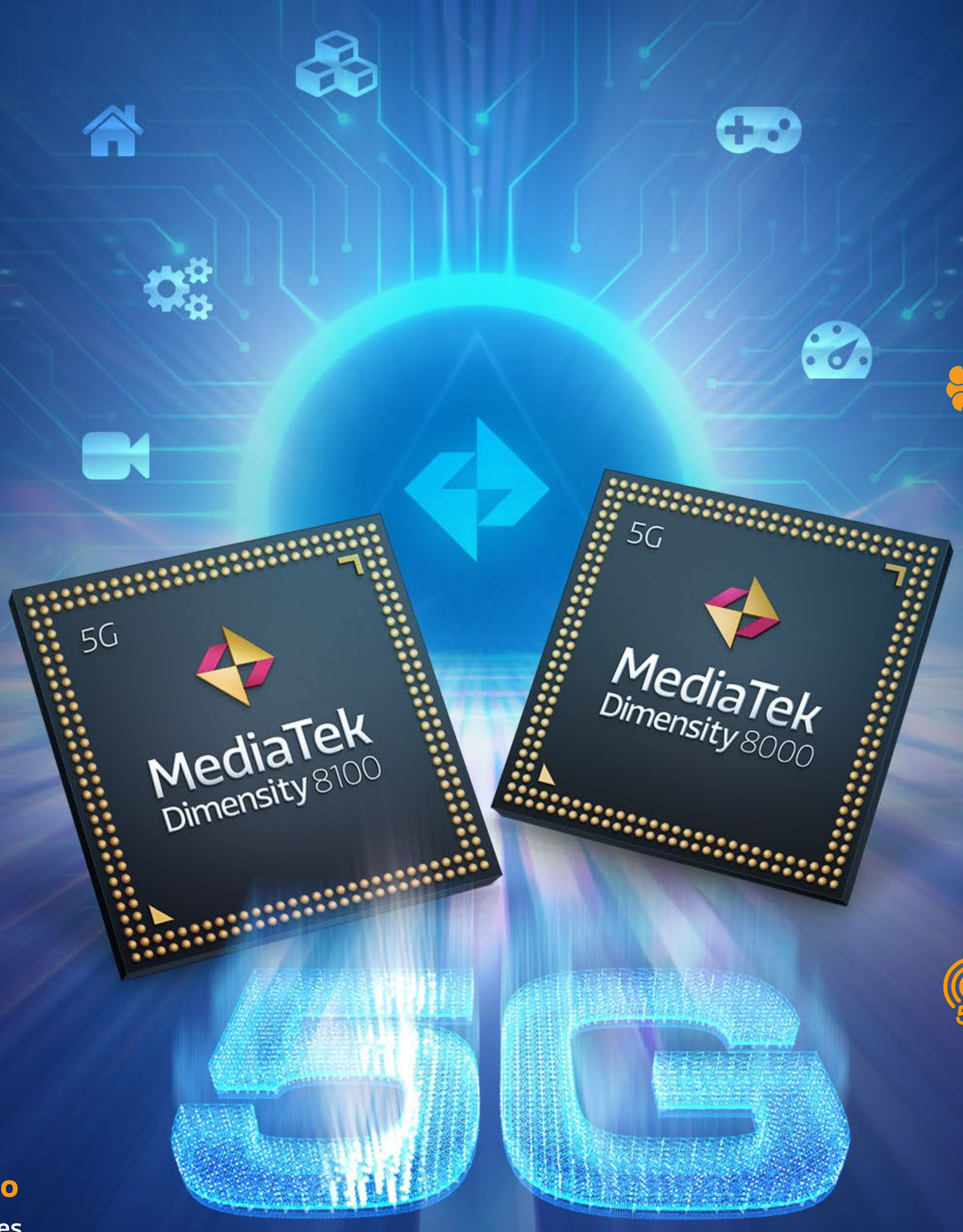
An immensely powerful 14-bit HDR-ISP gives the fastest, clearest HDR photos & video capture, enabling two cameras recording at the same time with three exposures per frame.

- Most powerful 5Gpixel/s ISP in its class
- Simultaneous dual camera HDR video recording
- 200MP camera support
- AI-NR/HDR photos
- 4K60 HDR10+ video capture
- AI-Motion unblur
- 2X lossless zoom

Latest Connectivity, Location & Wireless Audio

Featuring the latest Wi-Fi, Bluetooth and GNSS technologies.

- Latest Wi-Fi 6E 2x2 with MediaTek Wi-Fi Fast Path technology
- New Bluetooth 5.3
- New Wi-Fi/Bluetooth hybrid coexistence design
- Bluetooth LE Audio technology with Dual-Link True Wireless Stereo Audio
- New Beidou III-B1C GNSS support



MediaTek MiraVision 780

25% speed upgrade over previous generation Dimensity, plus the latest HDR and streaming technologies for multimedia playback.

- MediaTek Intelligent Display Sync 2.0
- CUVA HDR-vivid certified Android smartphone platform
- HDR10+ Adaptive support
- 4K AV1 media decoding

MediaTek Dimensity 8100	MediaTek Dimensity 8000
120Hz WQHD+ & 168Hz Full HD+	168Hz Full HD+

MediaTek APU 580

Featuring a design that maximizes efficiency at every pipeline step, our 5th generation AI processor offers class-leading power-effective performance in a wide variety of AI-tasks.

- Ideal for AI-multimedia, AI-camera, and social video experiences
- End-to-end upgrade maximizes efficiency at every pipeline step

MediaTek Dimensity 8100	MediaTek Dimensity 8000
2.75X speed boost over previous generation Dimensity	2.5X speed boost over previous generation Dimensity

3GPP Release-16 5G Smartphone Modem

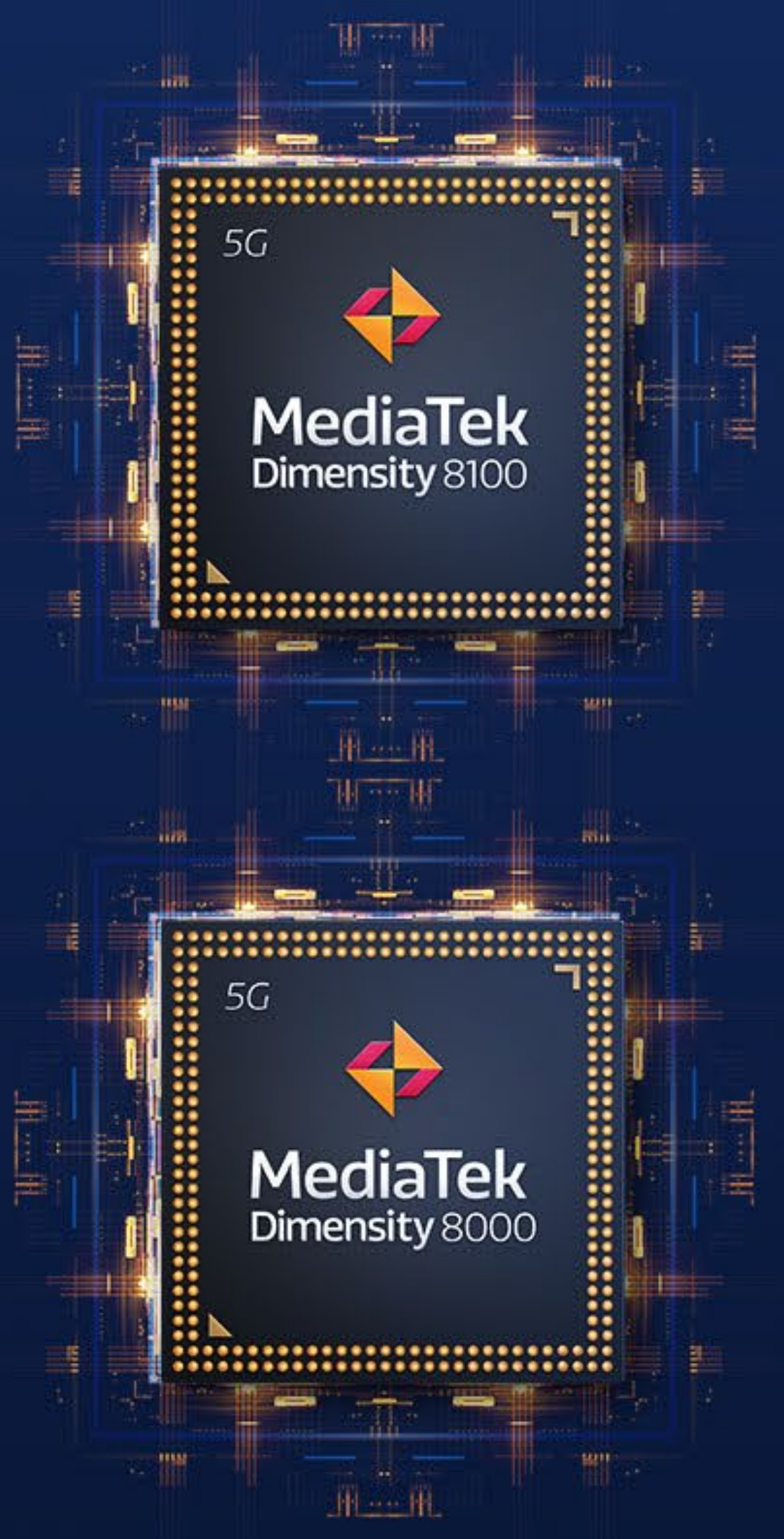
Unmatched 5G technologies that connect further, faster and with better power efficiency, so you can leave 5G on all day, every day.

- Latest Release-16 standard 5G modem
- MediaTek 5G UltraSave 2.0 power-saving enhancement suite including R16 WUS and SCell Dormancy
- 2CC Carrier Aggregation (200MHz) 5G NR
- 5G+5G Dual SIM Dual Standby

MediaTek Dimensity 8100 | 8000

SPECIFICATIONS

Process	TSMC N5 (5nm-class)
CPU	4x Arm Cortex-A78 *Dimensity 8100 up to 2.85GHz | Dimensity 8000 up to 2.75GHz* 4x Arm Cortex-A55
GPU	Arm Mali-G610 GPU MC6 **MediaTek HyperEngine 5.0** *Dimensity 8100 up to 20% frequency boost*
AI	MediaTek APU 580 *Dimensity 8100 up to 25% frequency boost*
Camera	MediaTek Imagiq 780 | 14-bit HDR-ISP fusion up to 5Gpixel/s | Up to 200MP Primary Camera | Twin camera, Tri-exposure HDR videography
Display	**MediaTek MiraVision 780** 168Hz Full HD+ *Dimensity 8100 also offers 120Hz WQHD+* MediaTek Intelligent Display Sync 2.0
Audio	Bluetooth LE Audio technology with Dual-Link True Wireless Stereo Audio
Connectivity	Wi-Fi 6E 2x2 and Bluetooth 5.3 | Wi-Fi/Bluetooth hybrid coexistence design
Memory	Quad-channel LPDDR5
Storage	UFS 3.1
Modem	3GPP Release 16 5G modem | MediaTek UltraSave 2.0 | 2CC Carrier Aggregation (200MHz) 5G NR
Customization	Dimensity 5G Open Resource Architecture ready



https://i.mediatek.com/dimensity-8000-Series