

MediaTek Genio Portfolio

	MediaTek Genio 1200	NEW MediaTek Genio 720	Pin to Pin MediaTek Genio 520 NEW	MediaTek Genio 700	Pin to Pin MediaTek Genio 510	MediaTek Genio 350
	Genio 1200	Genio 720	Genio 520	Genio 700	Genio 510	Genio 350
Process	6nm	6nm		6nm		14nm
CPU	4x Arm® Cortex®-A78, 2.2 GHz + 4x Arm® Cortex®-A55, 2.0 GHz	2x Arm® Cortex® A78, 2.4~2.6GHz + 6x Arm® Cortex® A55, 2.0GHz	2x Arm® Cortex® A78, 2.0~2.2GHz + 6x Arm® Cortex® A55, 1.8~2.0GHz	2x Arm® Cortex®-A78, 2.2 GHz + 6x Arm® Cortex®-A55, 2.0 GHz	2x Arm® Cortex®-A78, 2.0 GHz + 4x Arm® Cortex®-A55, 2.0 GHz	4x Arm® Cortex®-A53, 2.0 GHz
GPU	Arm Mali-G57 MC5	Arm Mali-G57 MC2		Arm Mali-G57 MC3	Arm Mali-G57 MC2	Arm Mali-G52
NPU	2x MDLA2.0 + 2x VP6, 4.8 TOPS	MediaTek 8 th generation NPU, up to 9 TOPS, Total up to 10 TOPS		1x MDLA3.0 + 1x VP6, 4.0 TOPS	1x MDLA3.0 + 1x VP6, 3.2 TOPS	1x VP6, 0.35 TOPS
Audio DSP	Hi-Fi 4	N/A		Hi-Fi 5		Hi-Fi 4
Memory	4-ch 16-bit LPDDR4(X)-4266, up to 16GB	2-ch 16-bit LPDDR4X-4266 up to 8GB 2-ch 16-bit LPDDR5(X)-6400 up to 16GB		2/4-ch 16-bit LPDDR4(X)-3733, up to 8GB		DDR3L/DDR4/LP3/ LPDDR4(X), up to 4GB
Storage	UFS2.1, eMMC5.1, SPI NOR	UFS3.1 2L, eMMC5.1, SPI NOR		eMMC 5.1, SPI NOR		eMMC 5.1
Display	Triple Display, FHD60+ FHD60+ 4K60 MIPI-DSI + eDP + HDMI/DP	Single: up to UW5K60, Dual: up to 2.5K60+2.5K60 MIPI-DSI/LVDS/eDP/DP (Type-C)		Dual Display, FHD60+4K60 MIPI-DSI/eDP + HDMI/DP		Dual Display, FHD60+ HD60 MIPI-DSI + LVDS/DPI
Video Input	3x MIPI CSI-2, 1x HDMI 2.0 16+16MP or 48MP@30fps 6x FHD30 with virtual channels	2x MIPI-CSI-2, 16+16MP or 32MP@30fps “or” 6x FHD30 with virtual channels	2x MIPI-CSI-2, 16MP@30fps or 6x FHD30 with virtual channels	2x MIPI CSI-2, 16+16MP or 32MP@30fps 8x FHD30 with virtual channels		2x MIPI CSI-2
VDEC	4K90, H.265/H.264/VP9/AV1	4K60, H.265/H.264/VP9		4K75/4K60, H.265/H.264/VP9/AV1	4K60, H.265/H.264/VP9/AV1	1080P60, H.265/H.264
VENC	4K60, H.265/H.264	4K30, H.265/H.264		4K30, H.265/H.264		1080P60, H.265/H.264/VP9
Peripheral	1x PCIe3.0, 1xPCIe2.0/USB3.1, 1x USB3.1, 2x USB2.0, 6x UART, 1x GbE MAC (TSN)	1x PCIe2.0, 1x USB3.2 Gen1 (Type C) (1 shared with DP), 3x USB2.0, 1x GbE MAC (TSN)		1x PCIe2.0, 1x USB3.2 Gen1, 2x USB2.0, 4x UART, 1x GbE MAC (TSN)		2x USB2 (1xOTG, 1xHost), 3x UART, 4x I2C, 10/100 Ethernet MAC
Temperature	Consumer: -20°C to 95°C (Tj) Industrial: -40°C to 105°C (Tj)	Consumer: -20°C to 95°C (Tj) Industrial: -40°C to 105°C (Tj)		Consumer: -20°C to 95°C (Tj) Industrial: -40°C to 105°C (Tj)		-20°C to 65°C (Ta)