

MediaTek Genio Portfolio

		 	 
	Genio 1200	Genio 720*/520*	Genio 700**/510**
Process	6nm	6nm	6nm
CPU	4x Arm® Cortex®-A78, 2.2GHz + 4x Arm® Cortex®-A55, 2.0GHz	2x Arm® Cortex® A78, 2.4~2.6GHz + 6x Arm® Cortex® A55, 2.0GHz	2x Arm® Cortex®-A78, 2.2GHz + 6x Arm® Cortex®-A55, 2.0GHz
GPU	Arm Mali-G57 MC5	Arm Mali-G57 MC2	Arm Mali-G57 MC3 (Genio 700) Arm Mali-G57 M2 (Genio 510)
NPU	2x MDLA2.0 + 2x VisionP6, 4.8 TOPS	MediaTek 8 th generation NPU, up to 9 TOPS, Total up to 10 TOPS	1x MDLA3.0 + 1x VisionP6, 4.0 TOPS
Audio DSP	Hi-Fi 4	N/A	Hi-Fi 5
Memory	4-ch 16-bit LP4(X)-4266, up to 16GB	2-ch 16-bit LP4X-4266 up to 8GB 2-ch 16-bit LP5(X)-6400 up to 16GB	2/4-ch 16-bit LP4(X)-3733, up to 8GB
Storage	UFS2.1, eMMC5.1, SPI NOR	UFS3.1 2L, eMMC5.1, SPI NOR	eMMC 5.1, SPI NOR
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
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, 16+16MP or 32MP@30fps 8x FHD30 with virtual channels
VDEC	4K90, H.265/H.264/VP9/AV1	4K60, H.265/H.264/VP9	4K75/4K60, H.265/H.264/VP9/AV1
VENC	4K60, H.265/H.264	4K30, H.265/H.264	4K30, H.265/H.264
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)
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)

*Genio 720 and 520 and 420 are pin to pin compatible.
**Genio 700 and 510 are pin to pin compatible.

		
Genio 420*	Genio 360	Genio 350
6nm	6nm	14nm
2x Arm® Cortex®-A78, 1.8GHz + 6x Arm® Cortex®-A55, 1.6GHz	1x Arm® Cortex® A76, 1.9~2.0GHz + 5x Arm® Cortex® A55, 1.7~2.0GHz	4x Arm® Cortex®-A53, 2.0GHz
Arm Mali-G57 MC2	Arm Mali-G57 MC2	Arm Mali-G52
MediaTek 8 th generation NPU, up to 6.1 TOPS, Total up to 7.2 TOPS	MediaTek 8 th generation NPU, up to 5.1 TOPS, Total up to 6 TOPS	1x VisionP6, 0.35 TOPS
N/A	N/A	Hi-Fi 4
2-ch 16-bit LP4X-4266 up to 8GB 2-ch 16-bit LP5(X)-6400 up to 16GB	2-ch 16-bit LP4X-3733 up to 8GB	DDR3L/DDR4/LP3/ LP4(X), up to 4GB
UFS3.1 2L, eMMC5.1, SPI NOR	eMMC 5.1, SPI NOR	eMMC 5.1
Single: up to UW5K60 Dual: up to 2.5K60+2.5K60 MIPI-DSI/LVDS/eDP/DP (Type-C)	Single: Max. 4K60 Dual: Max. FHD60+ FHD60 MIPI-DSI/LVDS/eDP/DP	Dual Display, FHD60+ HD60 MIPI-DSI + LVDS/DPI
2x MIPI-CSI-2, 16MP@30fps “or” 6x FHD30 with virtual channels	2x MIPI CSI, 16MP@30fps “or” 6x FHD30 with virtual channels	2x MIPI CSI-2
4K60, H.265/H.264/VP9	4K30, H.265/H.264/VP9	1080P60, H.265/H.264
4K30, H.265/H.264	FHD90, .265/H.264	1080P60, H.265/H.264/VP9
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), 1x CAN-FD	2x USB2 (1xOTG, 1xHost), 3x UART, 4x I2C, 10/100 Ethernet MAC
Consumer: -20°C to 95°C (Tj)	Consumer: -20°C to 95°C (Tj) Industrial: -40°C to 105°C (Tj)	-20°C to 65°C (Ta)