List of MediaTek systems on chips

This is a **list of MediaTek processors** for use in smartphones, tablets, smartwatches, IoT, Wi-Fi routers and access points, smart TVs and smartbooks.

Mediatek MT6582

MediaTek

General information	
Launched	2003
Designed by	MediaTek
Physical specifications	
Cores	1, 2, 4, 6, 8 or 10
Architecture and classification	
Application	Mobile SoC
Microarchitecture	ARM11, Cortex-A5, Cortex-A7, Cortex-A53, Cortex-A55, Cortex-A57, Cortex-A72, Cortex-A73 Cortex-A75, Cortex-A76, Cortex-A77, Cortex-A78, Cortex-A510, Cortex-A710, Cortex-A715, Cortex-A720, Cortex-A725, C1-Pro, Cortex-X2, Cortex-X3, Cortex-X4, Cortex-X925, C1-Premium, C1-Ultra
Instruction set	ARMv6, ARMv7-A, ARMv8-A, ARMv9-A

Smartphone processors from ARMv5 to ARMv8 (2003–2019)

ARMv5

Model number	CPU (ISA)	Fab	CPU (Core/Freq)	CPU cache	GPU	Memory technology	Wireless radio technologies	Released
MT6205	ARM7 (ARMv5TEJ)				No GPU		GSM	
MT6216							GSM/GPRS Class 12 Modem	
MT6217								
MT6218B			ARM7EJ @ 52 MHz	16 KB I-Cache, 16 KB D-Cache		8-bit or 16-bit up to 64 MB		2003
MT6219								2003
MT6223								2003
MT6225								
MT6226			ARM7EJ @ 52 MHz	16 KB I-Cache, 16 KB D-Cache		8-bit or 16-bit up to 64 MB		2003
MT6227								2003
MT6228								2003
MT6229			ARM7EJ-S @ 104 MHz					2003
MT6230								2003
MT6235	ARM9 (ARMv5TEJ)		ARM926EJ-S @ 208 MHz			8-bit or 16-bit up to 128 MB	GSM/GPRS/EDGE, Wi-Fi/GPS support	2007
MT6236			ARM926EJ-S @ 312 MHz				GSM/GPRS/EDGE, BT 2.1 EDR, HS 2.0 USB	2007
MT6252	ARM7 (ARMv5TEJ)		ARM7EJ-S @ 104 MHz	16 KB I-Cache, 16 KB D-Cache		Emb. 32 MB pseudo-SRAM	GSM/GPRS Quad-band Class 12 Modem	2005
MT6253							GSM/GPRS Class 12 Modem	2005
MT6516[1]	ARM9 (ARMv5TEJ)	65 nm	ARM926EJ-S @ 416 MHz				CSD, GPRS, EDGE, Not 3G compatible	2009

ARMv6

Model number	CPU (ISA)	Fab	CPU (Core/Freq)	CPU cache	GPU	Memory technology	Wireless radio technologies	Released
MT6276M	ARMv6	65 nm	single-core (32-bit) ARM11 (Jazelle) @ 520 MHz				GSM, GPRS, EDGE, Cl.12, Quad-band, HSPA Rel.6	
MT6513		65 nm (CMOS)	single-core (32-bit) ARM11 (Jazelle) @ 650 MHz		PowerVR SGX531 @ 281 MHz (2.2 GFLOPS in FP32)[2]		Not 3G compatible (MT6573 without 3G)	
MT6573[3]							3G, GSM, GPRS, UMTS, HSPA, HSDPA, HSUPA	2010

ARMv7

Single core

Model number	CPU ISA	Fab	CPU (Core/Freq)	CPU cache	GPU	Memory technology	Wireless radio technologies	Released
MT6515[4]	ARMv7	40 nm	1.0 GHz Single-core ARM Cortex-A9		PowerVR SGX531 Ultra @ 522 MHz (4.1 GFLOPS in FP32)[2]	LPDDR single-channel 32-bit 266 MHz (2.13 GB/s) LPDDR single-channel 32-bit 400 MHz (3.2 GB/s) LPDDR2 single-channel 32-bit 533 MHz (4.26 GB/s)	GSM, GPRS, TD-SCDMA, Not 3G compatible (MT6575 without 3G)	2012
MT6575[5]			1.0 GHz Single-core ARM Cortex-A9	512 KB L2			3G, HSPA, GPRS, UMTS, W-CDMA, HSUPA, HSDPA	2011
MT6575M[6]			1.0 GHz Single-core ARM Cortex-A9	256 KB L2	PowerVR SGX531T @ 281 MHz (2.2 GFLOPS in FP32)[2]			2012

Dual-core

Model number	CPU ISA	Fab	CPU (Core/Freq)	CPU cache	GPU	Memory technology	Wireless radio technologies	Released
MT6517[7]	ARMv7	40 nm	1.0 GHz Dual-core ARM Cortex-A9		PowerVR SGX531 Ultra @ 522 MHz (4.1 GFLOPS in FP32)[2]	LPDDR/LPDDR2 single-channel 32-bit 266 MHz (2.13 GB/s)	CSD, GSM, GPRS, TD-SCDMA, TD-HSPA Not 3G compatible (MT6577 without 3G)	2012
MT6517T			1.2 GHz Dual-core ARM Cortex-A9					
MT6577[8]			1.0 GHz Dual-core ARM Cortex-A9				3G, GSM, GPRS, UMTS, HSPA+, HSDPA, HSUPA	2012
MT6577T			1.2 GHz Dual-core ARM Cortex-A9					
MT6570[9]		28 nm	1.3 GHz Dual-core ARM Cortex-A7		Mali-400 MP1 @ 500 MHz (4.5 GFLOPS in FP32)[2]		GSM/EDGE (2G), Multi-mode Rel.8 HSPA+/TD-SCDMA (3G), Wi-Fi, FM, Bluetooth, GPS	2015
MT6571[10]				32 KB L1, 256 KB L2			GSM, GPRS, TD-SCDMA, GSM/EDGE (2G), Wi-Fi, FM, Bluetooth, GPS	Q3 2014
MT6572[11][12]			1.4 GHz Dual-core ARM Cortex-A7				Multi-mode Rel.8 HSPA+, TD-SCDMA, Wi-Fi, FM, Bluetooth, GPS	Q2 2013
MT6572M[13]			1.0 GHz Dual-core ARM Cortex-A7		Mali-400 MP1 @ 400 MHz (3.6 GFLOPS in FP32)[2]		GSM/EDGE (2G), Multi-mode Rel.8 HSPA+/TD-SCDMA (3G), Wi-Fi, FM, Bluetooth, GPS	2014

Quad-core

Model number	CPU ISA	Fab	CPU (Core/Freq)	CPU cache	GPU	Memory technology	Wireless radio technologies	Released
MT6580[14]	ARMv7	28 nm	1.3 GHz Quad-core ARM Cortex-A7	32 KB L1, 512 KB L2	Mali-400 MP1 @ 500 MHz (4.5 GFLOPS in FP32)[2]	LPDDR2/LPDDR3 single-channel 32-bit 533 MHz (4.26 GB/s)	R8 HSPA+, TD-SCDMA, Wi-Fi, FM, Bluetooth, GPS	2015
MT6582M					Mali-400 MP2 @ 400 MHz (7.2 GFLOPS in FP32)[2]			Q1 2014
MT6582[15]					Mali-400 MP2 @ 500 MHz (9 GFLOPS in FP32)[2]		GSM, GPRS, HSPA+, HSUPA, UMTS Rel. 8, TD-SCDMA, Wi-Fi, FM, Bluetooth, GPS	Q3 2013
MT6589M[16]			1.2 GHz Quad-core ARM Cortex-A7	32 KB L1, 1 MB L2	PowerVR SGX544MP @ 156 MHz (4.9 GFLOPS in FP32)[17]		3G, HSPA+, TD-SCDMA	Q2 2013
MT6589[a][18]			1.3 GHz Quad-core ARM Cortex-A7		PowerVR SGX544MP @ 266 MHz (8.5 GFLOPS in FP32)[17]			Q1 2013
MT6589T[19]			1.5 GHz Quad-core ARM Cortex-A7		PowerVR SGX544MP @ 357 MHz (11.4 GFLOPS in FP32)[17]	LPDDR LPDDR2		Q3 2013
MT6588[20]		28 nm (TSMC 28HPM)	1.7 GHz Quad-core ARM Cortex-A7		Mali-450 MP4 @ 600 MHz (36 GFLOPS in FP32)[2]	LPDDR2 single-channel 32-bit 533 MHz (4.26 GB/s) LPDDR3 single-channel 32-bit 666 MHz (5.3 GB/s)	R8 HSPA+/TD-SCDMA, Wi-Fi, FM, Bluetooth, GPS	Q4 2013

a. previously known as MT6588

Hexa-core and octa-core

Model number	CPU ISA	Fab	CPU (Core/Freq)	CPU cache	GPU	Memory technology	Wireless radio technologies	Released
MT6591	ARMv7	28 nm (TSMC 28HPM)	1.5 GHz Hexa-core ARM Cortex-A7	32 KB L1, 1 MB L2	Mali-450 MP4 @ 600 MHz (36 GFLOPS in FP32)[2]	LPDDR2 single-channel 32-bit LPDDR3 single-channel 32-bit 533 MHz (4.26 GB/s) LPDDR3 single-channel 32-bit 666 MHz (5.3 GB/s)[22]	GSM, GPRS, TD-SCDMA, UMTS, HSPA+, HSUPA	Q1 2014
MT6592M[21]			1.4 GHz Octa-core ARM Cortex-A7				R8 HSPA+/TD-SCDMA, Wi-Fi, FM, Bluetooth, GPS[a]	2014
MT6592[23]			1.7–2 GHz Octa-core ARM Cortex-A7		Mali-450 MP4 @ 700 MHz (42 GFLOPS in FP32)[2]			Q4 2013
MT6595M[24]			2.0 GHz Quad-core ARM Cortex-A17 1.5 GHz Quad-core ARM Cortex-A7 (ARM big.LITTLE with GTS)	32 KB L1, 2 MB L2	PowerVR G6200 @ 450 MHz (57.6 GFLOPS in FP32)	LPDDR3 dual-channel 32-bit (64-bit) 933 MHz (14.9 GB/s)	WCDMA, TD-SCDMA, GSM, FDD/TDD-LTE, CMCC 3G, CMCC 4G, TD-LTE	Q1 2014
MT6595[25]			2.2 GHz Quad-core ARM Cortex-A17 1.7 GHz Quad-core ARM Cortex-A7 (ARM big.LITTLE with GTS)		PowerVR G6200 @ 600 MHz (76.8 GFLOPS in FP32)			Q1 2014

a. Although MediaTek advertises the MT6592 *platform* as supporting LTE (4G), the modem inside the MT6592 chip itself does not support LTE

ARMv8

Quad-core

Model number	CPU ISA	Fab	CPU (Core / Freq)	GPU	Memory technology	Wireless radio technologies	Released
MT6731[26][27]	ARMv8-A (64-bit)	28 nm (TSMC 28HPM)	1.1 GHz quad-core ARM Cortex-A53	PowerVR GE8100 @ 350 MHz (5.6 GFLOPS in FP32)	LPDDR2/3 single-channel 32-bit 667 MHz (5.3 GB/s) 512 MB	GSM, UMTS, GPRS, HSPA+, HSUPA, LTE Cat 4	Q1 2019
MT6735P[28][29]			1.0 GHz quad-core ARM Cortex-A53	Mali-T720 MP2 @ 400 MHz[30] (16 GFLOPS in FP32)	LPDDR3 single-channel 32-bit 533 MHz (4.2 GB/s) up to 3 GB	GSM, UMTS, GPRS, HSPA+, HSUPA, TD-SCDMA, EVDO, LTE Cat 4	Q2 2015
MT6735M[28][29]				Mali-T720 MP2 @ 500 MHz[30] (20 GFLOPS in FP32)			
MT6735[28][29]			1.3 GHz quad-core ARM Cortex-A53	Mali-T720 MP2 @ 600 MHz[30] (24 GFLOPS in FP32)			Q2 2015
MT6737[28][29]			1.1-1.3 GHz quad-core ARM Cortex-A53	Mali-T720 MP2 @ 550–650 MHz[30] (22–26 GFLOPS in FP32)		GSM, UMTS, GPRS, HSPA+, HSUPA, TD-SCDMA, EVDO, LTE Cat 4 VoLTE	Q2 2016
MT6737T[28][29]			1.5 GHz quad-core ARM Cortex-A53	Mali-T720 MP2 @ 600 MHz[30] (24 GFLOPS in FP32)	LPDDR2/3 single-channel 32-bit 733 MHz (5.8 GB/s) up to 3 GB		Q2 2016
MT6732M[31]			1.3 GHz quad-core ARM Cortex-A53	Mali-T760 MP2 @ 500 MHz[2] (28 GFLOPS in FP32)	LPDDR3 single-channel 32-bit 800 MHz (6.4 GB/s)	GSM, UMTS, GPRS, HSPA+, HSUPA, TD-SCDMA, LTE Cat 4	Q3 2014
MT6732[28]			1.5 GHz quad-core ARM Cortex-A53				Q3 2014
MT6738[28][29]				Mali-T860 MP2 @ 350 MHz[30] (19.6 GFLOPS in FP32)	LPDDR3 single-channel 32-bit 667 MHz (5.3 GB/s) up to 4 GB	GSM, UMTS, GPRS, HSPA+, HSUPA, TD-SCDMA, EVDO, LTE Cat 6	2016
MT6738T[28][29]				Mali-T860 MP2 @ 520 MHz[30] (29.1 GFLOPS in FP32)			2016
MT6739				PowerVR GE8100 @ 570 MHz (9.1 GFLOPS in FP32)	LPDDR3 single-channel 32-bit 667 MHz (5.3 GB/s) up to 3 GB	GSM, UMTS, GPRS, HSPA+, HSUPA, TD-SCDMA, LTE Cat 4	Q4 2017

Octa-core

Model number	CPU ISA	Fab	CPU (Core / Freq)	GPU	Memory technology	Wireless radio technologies	Released
MT6750	ARMv8-A (64-bit)	28 nm (TSMC 28HPM)	1.5 GHz quad-core ARM Cortex-A53 + 1.0 GHz quad-core ARM Cortex-A53[32][33]	Mali-T860 MP2 @ 520 MHz[34][35] (29.1 GFLOPS in FP32)	LPDDR3 single-channel 32-bit 667 MHz (5.3 GB/s) up to 4 GB	GSM, UMTS, GPRS, TD-SCDMA, HSPA+, HSUPA, CDMA2000 1x/EVDO Rev. A, Cat 6 FDD/ TD-LTE w/ 20+20 CA, VoLTE	Q2 2016
MT6750N							Q1 2018
MT6753[36]			1.5 GHz quad-core ARM Cortex-A53 + 1.3 GHz quad-core ARM Cortex-A53	Mali-T720 MP3 @ 700 MHz[30] (42 GFLOPS in FP32)	LPDDR3 single-channel 32-bit 667 MHz (5.3 GB/s) up to 3 GB	GSM, UMTS, GPRS, TD-SCDMA, HSPA+, HSUPA, CDMA2000 1x/EVDO Rev. A, Cat 4 FDD/TD-LTE	Q3 2015
MT6750T			1.5 GHz quad-core ARM Cortex-A53 + 1.0 GHz quad-core ARM Cortex-A53[32]	Mali-T860 MP2 @ 650 MHz[34] (36.4 GFLOPS in FP32)	LPDDR3 single-channel 32-bit 833 MHz (6.6 GB/s) LPDDR3 up to 4 GB	GSM, UMTS, GPRS, TD-SCDMA, HSPA+, HSUPA, CDMA2000 1x/EVDO Rev. A, Cat 6 FDD/TD-LTE w/ 20+20 CA, VoLTE	Q2 2016
MT6750S[37]				Mali-T860 MP2			Q1 2018
MT6752M			1.5 GHz octa-core ARM Cortex-A53	Mali-T760 MP2 @ 700 MHz[2] (39.2 GFLOPS in FP32)	LPDDR3 single-channel 32-bit 800 MHz (6.4 GB/s)	GSM, UMTS, GPRS, HSPA+, HSUPA, TD-SCDMA, LTE Cat 4	Q3 2014
MT6752[38]			1.7 GHz octa-core ARM Cortex-A53				Q3 2014

Helio Series

Helio X Series (2014–2017)

Model number	CPU ISA	Fab	CPU (Core / Freq)	GPU	Memory technology	APU (AI Processing Unit)	Wireless radio technologies	Released
Helio X10 MT6795M/ 6795/6795T	ARM v8-A (64-bit)	28 nm (TSMC 28HPM)	4× Cortex-A53 @ 2.0/2.2 GHz 4× Cortex-A53 @ 1.2 GHz	PowerVR G6200 @ 550/700 MHz (70.4/89.6 GFLOPS in FP32)	LPDDR3 dual-channel 32-bit (64-bit) 933 MHz (14.9 GB/s)	—	UMTS, HSPA+, HSUPA, GSM, GPRS, TD-SCDMA LTE Cat 4	Q4 2014
Helio X20 MT6797[39]		20 nm (TSMC 20SoC)	2× Cortex-A72 @ 2.1 GHz 4× Cortex-A53 @ 1.85 GHz 4× Cortex-A53 @ 1.4 GHz	Mali-T880 MP4 @ 780 MHz (131.0 GFLOPS in FP32)	LPDDR3 dual-channel 32-bit (64-bit) 800 MHz (12.8 GB/s)		UMTS, HSPA+, HSUPA, GSM, GPRS, TD-SCDMA, CDMA2000 1x/EVDO Rev. A Cat 6 FDD/TD-LTE (20+20CA)	Q4 2015
Helio X23 MT6797D			2× Cortex-A72 @ 2.3 GHz 4× Cortex-A53 @ 1.85 GHz 4× Cortex-A53 @ 1.4 GHz	Mali-T880 MP4 @ 800 MHz (134.4 GFLOPS in FP32)				Q1 2017
Helio X25 MT6797T[40]			2× Cortex-A72 @ 2.5 GHz 4× Cortex-A53 @ 2 GHz 4 × Cortex-A53 @ 1.55 GHz					Q4 2015
Helio X27 MT6797X[40]			2× Cortex-A72 @ 2.6 GHz 4× Cortex-A53 @ 2 GHz 4× Cortex-A53 @ 1.6 GHz	Mali-T880 MP4 @ 875 MHz (147.0 GFLOPS in FP32)				Q1 2017
Helio X30 MT6799[41]		10 nm (TSMC 10FF)	2× Cortex-A73 @ 2.6 GHz 4× Cortex-A53 @ 2.2 GHz 4× Cortex-A35 @ 1.9 GHz	PowerVR 7XTP-MT4 @ 850 MHz (217.6 GFLOPS in FP32)	LPDDR4X quad-channel 16-bit (64-bit) 1866 MHz (29.9 GB/s)	Cadence Tensilica P5 DSP	FDD-LTE, TD-LTE, WCDMA, TD-SCDMA, CDMA, GSM Cat 10 (DL = 450 Mbit/s, 3× 20 MHz CA, 64-QAM) (UL = 150 Mbit/s, 2× 20 MHz CA, 64-QAM)	Q2 2017

Helio A Series (2018–2020)

Model number	CPU ISA	Fab	CPU (Core/Freq)	GPU	Memory technology	Wireless radio technologies	Released
Helio A20 MT6761V/WE	ARMv8-A (64-bit)	12 nm (TSMC 12FFC)	4× Cortex-A53 @ 1.8 GHz	PowerVR GE8300 @ 550 MHz (17.6 GFLOPS in FP32)	LPDDR3 single-channel 32-bit 800 MHz (12.8 GB/s) LPDDR4 dual-channel 16-bit (32-bit) 1200 MHz (9.6 GB/s)	UMTS, HSPA+, HSUPA, GSM, GPRS, TD-SCDMA, LTE Cat 6, CDMA2000 1x/EVDO Rev. A (SRLTE)	Q1 2020
Helio A22 MT6761V/WAB MT6761V/WBB			4× Cortex-A53 @ 2.0 GHz	PowerVR GE8300 @ 660 MHz (21.1 GFLOPS in FP32)	LPDDR3 single-channel 32-bit 933 MHz (13.9 GB/s) LPDDR4X dual-channel 16-bit (32-bit) 1600 MHz (12.8 GB/s)	UMTS, HSPA+, HSUPA, GSM, GPRS, TD-SCDMA, LTE Cat 7 (DL) & Cat 13 (UL), CDMA2000 1x/ EVDO Rev. A (SRLTE)	Q2 2018
Helio A25 MT6762V/WB MT6762V/WD			4× Cortex-A53 @ 1.8 GHz + 4× Cortex-A53 @ 1.5 GHz	PowerVR GE8320 @ 600 MHz (38.4 GFLOPS in FP32)	LPDDR3 single-channel 32-bit 933 MHz (13.9 GB/s) LPDDR4 dual-channel 16-bit (32-bit) 1200 MHz (9.6 GB/s) LPDDR4X dual-channel 16-bit (32-bit) 1600 MHz (12.8 GB/s)	UMTS, HSPA+, HSUPA, GSM, GPRS, TD-SCDMA, LTE Cat 4, CDMA2000 1x/EVDO Rev. A (SRLTE)	Q4 2019

Helio P Series (2015–2020)

Model number	CPU ISA	Fab	CPU (Core/Freq)	GPU	Memory technology	APU (AI Processing Unit)	Wireless radio technologies	Released date
Helio P10 MT6755[42] MT6755M[34]	ARMv8-A (64-bit)	28 nm (TSMC 28HPC+)	4× Cortex-A53 @ 2.0/1.8 GHz 4× Cortex-A53 @ 1.2/1.0 GHz	Mali-T860 MP2 @ 700 MHz (39.2 GFLOPS in FP32)	LPDDR3 single-channel 32-bit 933 MHz (7.4 GB/s)	—	GSM, UMTS, GPRS, HSPA+, HSUPA, TD-SCDMA, CDMA2000 1x/EVDO Rev. A, Cat 6 FDD and TD-LTE w/ 20+20 CA	Q4 2015
Helio P15 MT6755T[34]			4× Cortex-A53 @ 2.2 GHz 4× Cortex-A53 @ 1.2 GHz					Q3 2016
Helio P18 MT6755S[34]			4× Cortex-A53 @ 2.0 GHz 4× Cortex-A53 @ 1.4 GHz	Mali-T860 MP2 @ 800 MHz (44.8 GFLOPS in FP32)				Q1 2018
Helio P20 MT6757[43]		16 nm (TSMC 16FF+)	4× Cortex-A53 @ 2.3 GHz 4× Cortex-A53 @ 1.6 GHz	Mali-T880 MP2 @ 900 MHz (50.4 GFLOPS in FP32)	LPDDR4X dual-channel 16-bit (32-bit) 1600 MHz (12.8 GB/s)			Q3 2016
Helio P25 / P25T MT6757CD MT6757T			4× Cortex-A53 @ 2.4/2.6 GHz 4× Cortex-A53 @ 1.65/1.7 GHz	Mali-T880 MP2 @ 1.0 GHz (56.0 GFLOPS in FP32)				Q2 2017
Helio P22 MT6762		12 nm (TSMC 12FFC)	4× Cortex-A53 @ 2.0 GHz 4× Cortex-A53 @ 1.5 GHz	PowerVR GE8320 @ 650 MHz (41.6 GFLOPS in FP32)	LPDDR3 single-channel 32-bit 933 MHz (7.4 GB/s) LPDDR4X dual-channel 16-bit (32-bit) 1600 MHz (12.8 GB/s)		GSM, UMTS, GPRS, HSPA+, HSUPA, TD-SCDMA, CDMA2000 1x/EVDO Rev. A, Cat 7 FDD and TD-LTE w/ 20+20 CA, Dual 4G LTE DSDS with Dual VoLTE/ViLTE	Q2 2018
Helio P23 / P23T MT6763 MT6763T		16 nm (TSMC 16FF+)	4× Cortex-A53 @ 2.3/2.5 GHz[44] 4× Cortex-A53 @ 1.65 GHz	Mali-G71 MP2 @ 770 MHz (37 GFLOPS in FP32)	LPDDR4X dual-channel 16-bit (32-bit) 1600 MHz (12.8 GB/s)			Q3 2017
Helio P30 MT6758			4× Cortex-A53 @ 2.3 GHz 4× Cortex-A53 @ 1.65 GHz	Mali-G71 MP2 @ 950 MHz (45.6 GFLOPS in FP32)		Cadence Tensilica Vision P5 DSP @ 500 MHz	GSM, UMTS, GPRS, HSPA+, HSUPA, TD-SCDMA, CDMA2000 1x/EVDO Rev. A, Cat 6 FDD and TD-LTE w/ 20+20 CA	Q3 2017
Helio P35 MT6765		12 nm (TSMC 12FFC)	4× Cortex-A53 @ 2.3 GHz 4× Cortex-A53 @ 1.8 GHz	PowerVR GE8320 @ 680 MHz (43.5 GFLOPS in FP32)				Q4 2018
Helio P60 MT6771[40]			4× Cortex-A73 @ 2.0 GHz 4× Cortex-A53 @ 2 GHz	Mali-G72 MP3 @ 800 MHz (57.6 GFLOPS in FP32)	LPDDR4X dual-channel 16-bit (32-bit) 1800 MHz (14.4 GB/s)	2× Cadence Tensilica Vision P6 DSP @ 525 MHz (2x 140 GMACs)	GSM, UMTS, GPRS, HSPA+, HSUPA, TD-SCDMA, CDMA2000 1x/EVDO Rev. A, Cat-7 (DL) / Cat-13 (UL); Dual 4G VoLTE; TAS 2.0; Global IMS	Q1 2018
Helio P65 MT6768[45]			2× Cortex-A75 @ 2.0 GHz 6× Cortex-A55 @ 1.7 GHz	Mali-G52 MC2 @ 820 MHz (78.7 GFLOPS in FP32)	LPDDR4X dual-channel 16-bit (32-bit) 1866 MHz (14.9 GB/s)			Q3 2019
Helio P70[40] MT6771V/CT MT6771V/WT			4× Cortex-A73 @ 2.1 GHz 4× Cortex-A53 @ 2.0 GHz	Mali-G72 MP3 @ 900 MHz (64.8 GFLOPS in FP32)	LPDDR4X dual-channel 16-bit (32-bit) 1800 MHz (14.4 GB/s)		GSM, UMTS, GPRS, HSPA+, HSUPA, TD-SCDMA, CDMA2000 1x/EVDO Rev. A, Cat-7 (DL)/Cat-13 (UL); Dual 4G VoLTE; TAS 2.0; Global IMS	Q4 2018
Helio P90[46] MT6779V/CU	ARMv8.2-A (64-bit)		2× Cortex-A75 @ 2.2 GHz 6× Cortex-A55 @ 2.0 GHz	PowerVR GM9446 @ 970 MHz (124.1 GFLOPS in FP32)	LPDDR4X dual-channel 16-bit (32-bit) 1866 MHz (14.9 GB/s)	2× Cadence Tensilica Vision R6 DSP @ 624 MHz (2x 140 GMACs) APU 2.0 (1127 GMACs)	GSM, UMTS, GPRS, HSPA+, HSUPA, TD-SCDMA, CDMA2000 1x/EVDO Rev. A, Cat-12 (DL) / Cat-13 (UL); Dual 4G VoLTE; TAS 2.0; Global IMS Bluetooth 5.0, 4x4 MIMO	Q1 2019
Helio P95 MT6779V/CV								Q2 2020

Helio G Series (2019–present)

Model number	CPU ISA	Fab	CPU (Core/Freq)	GPU	Memory technology	APU (AI Processing Unit)	ISP	Wireless radio technologies	Released
Helio G25[47] MT6762G	ARMv8-A (64-bit)	12 nm (TSMC 12FFC)	4× Cortex-A53 @ 2.0 GHz 4× Cortex-A53 @ 1.5 GHz	PowerVR GE8320 @ 650 MHz (41.6 GFLOPS in FP32)	LPDDR3 single-channel 32-bit 933 MHz (7.4 GB/s) LPDDR4X dual-channel 16-bit (32-bit) 1600 MHz (12.8 GB/s)	Unknown	21 MP Single Camera at 30 fps 13 MP+8 MP Dual Camera at 30 fps	GSM, UMTS, GPRS, HSPA+, HSUPA, TD-SCDMA, CDMA2000 1x/EVDO Rev. A LTE Cat-4, Cat-7 (DL) / Cat-13 (UL); Dual 4G VoLTE; TAS 2.0; Global IMS Bluetooth 5.0	Q2 2020
Helio G35[48] MT6765G MT6765V/CB[49]			4× Cortex-A53 @ 2.3 GHz 4× Cortex-A53 @ 1.8 GHz	PowerVR GE8320 @ 680 MHz (43.5 GFLOPS in FP32)			25 MP Single Camera at 30 fps 13 MP+13 MP Dual Camera at 30 fps		
Helio G36[50] MT6765V/XAA MT6765V/XBA			4× Cortex-A53 @ 2.2 GHz 4× Cortex-A53 @ 1.6 GHz				50 MP Single Camera at 15 fps 25 MP Single Camera at 30 fps 13 MP+13 MP Dual Camera at 30 fps		Q1 2023
Helio G37[51] MT6765H			4× Cortex-A53 @ 2.3 GHz 4× Cortex-A53 @ 1.8 GHz						Q4 2021
Helio G50[52] MT6765V			4× Cortex-A53 @ 2.2 GHz 4× Cortex-A53 @ 1.7 GHz						Q4 2024
Helio G70[53] MT6769V/CB	ARMv8.2-A (64-bit)		2× Cortex-A75 @ 2.0 GHz 6x Cortex-A55 @ 1.7 GHz	Mali G52 MC2 @ 820 MHz (78.7 GFLOPS in FP32)	LPDDR4X dual-channel 16-bit (32-bit) 1800 MHz (14.4 GB/s)		48 MP Single Camera 25 MP Single Camera at 30 fps 16 MP+16 MP Dual Camera at 30 fps	GSM, UMTS, GPRS, HSPA+, HSUPA, TD-SCDMA, CDMA2000 1x/EVDO Rev. A LTE Cat-7 (DL) / Cat-13 (UL); Dual 4G VoLTE; TAS 2.0; Global IMS Bluetooth 5.0	Q1 2020
Helio G80[54] MT6769T MT6769V/CT MT6769V/CU			2× Cortex-A75 @ 2.0 GHz 6x Cortex-A55 @ 1.8 GHz	Mali-G52 MC2 @ 950 MHz (91.2 GFLOPS in FP32)					
Helio G81[55] MT6769J MT6769L MT6769S			2× Cortex-A75 @ 2.0 GHz 6x Cortex-A55 @ 1.7 GHz	Mali G52 MC2 @ 820 MHz (78.7 GFLOPS in FP32)					Q3 2024
Helio G85[56] MT6769Z MT6769V/CZ			2× Cortex-A75 @ 2.0 GHz 6x Cortex-A55 @ 1.8 GHz	Mali-G52 MC2 @ 1.0 GHz (96 GFLOPS in FP32)					Q2 2020
Helio G88[57] MT6769H							64 MP Single Camera 16 MP+16 MP Dual Camera at 30 fps		Q3 2021
Helio G91[58] MT6769G MT6769K							108 MP Single Camera 16 MP+16 MP Dual Camera at 30 fps		Q1 2024
Helio G92[59] MT6769I							64 MP Single Camera 16 MP+16 MP Dual Camera at 30 fps		Q4 2024
Helio G90[60] MT6785 MT6785V			2× Cortex-A76 @ 2.05 GHz 6× Cortex-A55 @ 2.0 GHz	Mali-G76 MC4 @ 720 MHz (138.2 GFLOPS in FP32)	LPDDR4X dual-channel 16-bit (32-bit) 2133 MHz (17.0 GB/s)	2× APU (1 TOPS)	48 MP Single Camera at 30 fps 24 MP+16 MP Dual Camera at 30 fps	GSM, UMTS, GPRS, HSPA+, HSUPA, TD-SCDMA, CDMA2000 1x/EVDO Rev. A LTE Cat-12 (DL) / Cat-13 (UL); Dual 4G VoLTE; TAS 2.0; Global IMS Bluetooth 5.0, 4x4 MIMO	Q3 2019
Helio G90T MT6785V/CC				Mali-G76 MC4 @ 800 MHz (153.6 GFLOPS in FP32)			64 MP Single Camera at 22.5 fps 48 MP Single Camera at 30 fps 24 MP+16 MP Dual Camera at 30 fps		
Helio G95[61] MT6785V/CD				Mali-G76 MC4 @ 900 MHz (172.8 GFLOPS in FP32)					Q3 2020
Helio G96[62] MT6781 MT6781V/CD				Mali-G57 MC2 @ 950 MHz (121.6		Unknown	108 MP Single Camera 32 MP Single Camera at 30 fps	GSM, UMTS, GPRS, HSPA+, HSUPA, TD-SCDMA, CDMA2000 1x/EVDO Rev. A	Q3 2021

				GFLOPS in FP32)			with ZSL 16 MP+16 MP Dual Camera at 30 fps with ZSL	LTE Cat-13; Dual 4G VoLTE; TAS 2.0; Global IMS 4x4 MIMO, Bluetooth 5.2	
Helio G99[63] MT6789 MT6789G MT6789U MT6789V/CD MT8781 MT8781V/CA MT8781V/NA		6 nm (TSMC N6)	2× Cortex-A76 @ 2.2 GHz 6× Cortex-A55 @ 2.0 GHz	Mali-G57 MC2 @ 1.0 GHz (128 GFLOPS in FP32)					Q2 2022
Helio G100[64] MT6789H MT6789I MT6789J							200 MP Single Camera 32 MP Single Camera at 30 fps with ZSL 16 MP+16 MP Dual Camera at 30 fps with ZSL		Q3 2024
Helio G200[65] MT6789T				Mali-G57 MC2 @ 1.1 GHz (140.8 GFLOPS in FP32)					Q2 2025

Dimensity Series (2020–present)

Dimensity 700 Series

Model number	CPU ISA	Fab	CPU (Core/Freq)	GPU	Memory technology	ISP	Wireless radio technologies	Released
Dimensity 700[66] (MT6833 MT6833G MT6833V/ZA MT6833V/NZA)	ARMv8.2-A (64-bit)	7 nm (TSMC N7)	2× Cortex-A76 @ 2.2 GHz 6× Cortex-A55 @ 2.0 GHz	Mali-G57 MC2 @ 950 MHz (121.6 GFLOPS in FP32)	LPDDR4X dual-channel 16-bit (32-bit) 2133 MHz (17.0 GB/s)	64 MP Single Camera 16 MP + 16 MP Dual Camera at 30 fps	5G NR Sub-6 GHz, LTE	Q1 2021
Dimensity 720[67] (MT6853V/ZA MT6853V/NZA)			2× Cortex-A76 @ 2.0 GHz 6× Cortex-A55 @ 2.0 GHz	Mali-G57 MC3 @ 730 MHz (140.2 GFLOPS in FP32)		64 MP Single Camera 20 MP + 16 MP Dual Camera at 30 fps		Q3 2020

Dimensity 800 Series

Model number	CPU ISA	Fab	CPU (Core/Freq)	GPU	Memory technology	APU (AI Processing Unit)	ISP	Wireless radio technologies	Released
Dimensity 800U[68] (MT6853T MT6853V/TNZA)	ARMv8.2-A (64-bit)	7 nm (TSMC N7)	2× Cortex-A76 @ 2.4 GHz 6× Cortex-A55 @ 2.0 GHz	Mali-G57 MC3 @ 950 MHz (182.4 GFLOPS in FP32)	LPDDR4X dual-channel 16-bit (32-bit) 2133 MHz (17.0 GB/s)	Mediatek APU	64 MP Single Camera 20 MP + 16 MP Dual Camera at 30 fps	5G NR Sub-6 GHz, LTE	Q3 2020
Dimensity 800[69] (MT6873)			4× Cortex-A76 @ 2.0 GHz 4× Cortex-A55 @ 2.0 GHz	Mali-G57 MC4 @ 748 MHz (191.5 GFLOPS in FP32)		Mediatek APU 3.0 (4 cores) 2.4 TOPS	64 MP Single Camera 32 MP + 16 MP Dual Camera at 30 fps		Q2 2020
Dimensity 810[70] (MT6833P MT6833GP MT6833V/PNZA)		6 nm (TSMC N6)	2× Cortex-A76 @ 2.4 GHz 6× Cortex-A55 @ 2.0 GHz	Mali-G57 MC2 @ 1068 MHz (136.7 GFLOPS in FP32)			64 MP Single Camera 16 MP + 16 MP Dual Camera at 30 fps		Q3 2021
Dimensity 820[71] (MT6875)		7 nm (TSMC N7)	4× Cortex-A76 @ 2.6 GHz 4× Cortex-A55 @ 2.0 GHz	Mali-G57 MC5 @ 900 MHz (288 GFLOPS in FP32)		Mediatek APU 3.0 (4 cores) 2.4 TOPS	80 MP Single Camera 32 MP + 16 MP Dual Camera at 30 fps		Q2 2020

Dimensity 900 Series

Model number	CPU ISA	Fab	CPU (Core/Freq)	GPU	Memory technology	APU (AI Processing Unit)	ISP	Wireless radio technologies	Released
Dimensity 900[72] (MT6877 MT6877V/ZA)	ARMv8.2-A (64-bit)	6 nm (TSMC N6)	2× Cortex-A78 @ 2.4 GHz 6× Cortex-A55 @ 2.0 GHz	Mali-G68 MC4 @ 900 MHz (230.4 GFLOPS in FP32)	LPDDR4X LPDDR5	MediaTek APU 3.0	108 MP Single Camera, 20 MP + 20 MP Dual Camera at 30 fps	5G NR Sub-6 GHz, LTE	Q2 2021
Dimensity 920[73] (MT6877 MT6877T MT6877V/TZA)			2× Cortex-A78 @ 2.5 GHz 6× Cortex-A55 @ 2.0 GHz	Mali-G68 MC4 @ 950 MHz (243.2 GFLOPS in FP32)					Q3 2021
Dimensity 930[74] (MT6855 MT6855G MT6855V/AZA)			2× Cortex-A78 @ 2.2 GHz 6× Cortex-A55 @ 2.0 GHz	IMG BXM-8-256 @ 950 MHz (243.2 GFLOPS in FP32)			108 MP Single Camera		Q3 2022

Dimensity 1000 Series

The MediaTek Dimensity 1100 and 1200 were announced on December 1, 2020, as the chipset company announced.

Model number	CPU ISA	Fab	CPU (Core/Freq)	GPU	Memory technology	APU (AI Processing Unit)	ISP	Wireless radio technologies	Released
Dimensity 1000C[75] (MT6883Z/CZA)	ARMv8.2-A (64-bit)	7 nm (TSMC N7)	4× Cortex-A77 @ 2.0 GHz 4× Cortex-A55 @ 2.0 GHz	Mali-G57 MC5 @ 654 MHz (209.3 GFLOPS in FP32)	LPDDR4X quad-channel 16-bit (64-bit) 1866 MHz (29.9 GB/s)	Mediatek APU 3.0 (4 cores) (2.4 TOPS)	Photo: 64 MP, 32 MP + 16 MP Video: 4K HDR	5G NR Sub-6 GHz, dual-band GNSS, LTE, Wi-Fi 5 (2x2), Bluetooth 5.1	Q3 2020
Dimensity 1000L (MT6885Z/CZA)			4× Cortex-A77 @ 2.2 GHz 4× Cortex-A55 @ 2.0 GHz	Mali-G77 MC7 @ 695 MHz (311.4 GFLOPS in FP32)		Mediatek APU 3.0 (2x big, 3x small and 1x tiny) (4.5 TOPS)	Photo: 80 MP, 32 MP + 16 MP Video: 4K HDR	5G NR Sub-6 GHz, dual-band GNSS, LTE, Wi-Fi 6 (2x2), Bluetooth 5.1	Q1 2020
Dimensity 1000[76] (MT6889)			4× Cortex-A77 @ 2.6 GHz 4× Cortex-A55 @ 2.0 GHz	Mali-G77 MC9 @ 836 MHz (481.5 GFLOPS in FP32)					
Dimensity 1000+[77] (MT6889Z/CZA)									Q2 2020
Dimensity 1050[78] (MT6879 MT6879V/ZA MT6879V_T/ZA)		6 nm (TSMC N6)	2× Cortex-A78 @ 2.5 GHz 6× Cortex-A55 @ 2.0 GHz	Mali-G610 MC3 @ 1.0 GHz (384 GFLOPS in FP32)	LPDDR4X, LPDDR5	MediaTek APU 550	Photo: 108 MP, 20 MP + 20 MP Video: 4K30 HDR	5G NR Sub-6 GHz, dual-band GNSS, 5G mmWave, LTE, Wi-Fi 6 (2x2), Bluetooth 5.2	Q3 2022
Dimensity 1080[79] (MT6877 MT6877V/TTZA MT6877V_T/TTZA)			2× Cortex-A78 @ 2.6 GHz 6× Cortex-A55 @ 2.0 GHz	Mali-G68 MC4 @ 950 MHz (243.2 GFLOPS in FP32)		MediaTek APU 3.0	Photo: 200 MP Video: 4K30 HDR	5G NR Sub-6 GHz, dual-band GNSS, LTE, Wi-Fi 6 (2x2), Bluetooth 5.2	Q4 2022
Dimensity 1100[80] (MT6891 MT6891Z/CZA MT6891Z_Z/CZA MT6891Z_T/CZA)			4× Cortex-A78 @ 2.6 GHz 4× Cortex-A55 @ 2.0 GHz	Mali-G77 MC9 @ 836 MHz (481.5 GFLOPS in FP32)	LPDDR4X quad-channel 16-bit (64-bit) 2133 MHz (34.1 GB/s)	Mediatek APU 3.0 (6 cores)	Photo: 108 MP, 32 MP + 16 MP Video: 4K HDR		Q1 2021
Dimensity 1200[81] (MT6893 MT6893Z/CZA MT6893Z_A/CZA)			1× Cortex-A78 @ 3.0 GHz 3× Cortex-A78 @ 2.6 GHz 4× Cortex-A55 @ 2.0 GHz	Mali-G77 MC9 @ 886 MHz (510.3 GFLOPS in FP32)		Mediatek APU 3.0 (6 cores) (12.5%+)	Photo: 200 MP, 32 MP + 16 MP Video: 4K HDR		
Dimensity 1300[82] (MT6893Z_Z/CZA MT6893Z_T/CZA)									Q2 2022

Dimensity 6000 Series

Model number	CPU ISA	Fab	CPU (Core/Freq)	GPU	Memory technology	ISP	Wireless radio technologies	Released
Dimensity 6020[83] (Dimensity 700 renamed)	ARMv8.2-A (64-bit)	7 nm (TSMC N7)	2× Cortex-A76 @ 2.2 GHz 6× Cortex-A55 @ 2.0 GHz	Mali-G57 MC2 @ 950 MHz (121.6 GFLOPS in FP32)	LPDDR4X dual-channel 16-bit (32-bit) 2133 MHz (17.0 GB/s)	Photo: 64 MP, 16 + 16 MP Video: 2K30	5G NR Sub-6 GHz, 4G LTE, dual-band GNSS, Wi-Fi 5 (1x1), Bluetooth 5.1	Q1 2023
Dimensity 6080[84] (Dimensity 810 renamed)		6 nm (TSMC N6)	2× Cortex-A76 @ 2.4 GHz 6× Cortex-A55 @ 2.0 GHz	Mali-G57 MC2 @ 1068 MHz (136.7 GFLOPS in FP32)		Photo: 108 MP, 16 + 16 MP		
Dimensity 6100+[85] (MT6835 MT6835V/ZA MT8755V/TZB)			2× Cortex-A76 @ 2.2 GHz 6× Cortex-A55 @ 2.0 GHz	Mali-G57 MC2 @ 962 MHz (123.1 GFLOPS in FP32)			5G NR Sub-6 GHz, 4G LTE, dual-band GNSS, Wi-Fi 5 (1x1), Bluetooth 5.2	Q3 2023
Dimensity 6300[86] (MT6835 MT6835T MT6835V/TZB)			2× Cortex-A76 @ 2.4 GHz 6× Cortex-A55 @ 2.0 GHz	Mali-G57 MC2 @ 1072 MHz (137.2 GFLOPS in FP32)				Q2 2024
Dimensity 6360[87]								Q2 2026
Dimensity 6400[88] (MT6835 MT6835V/TTZB)			2× Cortex-A76 @ 2.5 GHz 6× Cortex-A55 @ 2.0 GHz					Q1 2025
Dimensity 6500[89]			2× Cortex-A76 @ 2.6 GHz 6× Cortex-A55 @ 2.0 GHz	Mali-G57 MC2 @ 1.1 GHz (140.8 GFLOPS in FP32)				Q2 2026

Dimensity 7000 Series

Model number	CPU ISA	Fab	CPU (Core/Freq)	GPU	Memory technology	APU (AI Processing Unit)	ISP	Wireless radio technologies	Released
Dimensity 7020[90] (Dimensity 930 renamed)	ARMv8.2-A (64-bit)	6 nm (TSMC N6)	2× Cortex-A78 @ 2.2 GHz 6× Cortex-A55 @ 2.0 GHz	IMG BXM-8-256 @ 950 MHz (243.2 GFLOPS in FP32)	LPDDR4X dual-channel 16-bit (32-bit) 2133 MHz (17.0 GB/s) LPDDR5 dual-channel 16-bit (32-bit) 2750 MHz (22 GB/s)		Photo: 108 MP Video: 2K30	5G NR Sub-6 GHz, 4G LTE, dual-band GNSS (GPS, QZSS, BeiDou, Glonass, Galileo, NavIC), Wi-Fi 5 (1x1), Bluetooth 5.2	Q1 2023
Dimensity 7025[91] (MT6855V/ATZA MT6855V_A/ATZA)			2× Cortex-A78 @ 2.5 GHz 6× Cortex-A55 @ 2.0 GHz				Photo: 200 MP Video: 2K30		Q2 2024
Dimensity 7030[92] (Dimensity 1050 renamed)				Mali-G610 MC3 @ 1.0 GHz (384 GFLOPS in FP32)		MediaTek NPU 550	MediaTek Imagiq 760 Photo: 108 MP / 20 MP + 20 MP Video: 4K30 HDR	5G NR Sub-6 GHz & mmWave, 4G LTE, dual-band GNSS (GPS, QZSS, BeiDou, Glonass, Galileo, NavIC), Wi-Fi 6E (2x2), Bluetooth 5.2	Q3 2023
Dimensity 7050[93] (Dimensity 1080 renamed)			2× Cortex-A78 @ 2.6 GHz 6× Cortex-A55 @ 2.0 GHz	Mali-G68 MC4 @ 950 MHz (243.2 GFLOPS in FP32)			Photo: 200 MP Video: 4K30 HDR	5G NR Sub-6 GHz, 4G LTE, dual-band GNSS (GPS, QZSS, BeiDou, Glonass, Galileo, NavIC), Wi-Fi 6 (2x2), Bluetooth 5.2	Q2 2023
Dimensity 7060[94] (MT6855V/TTZA)				IMG BXM-8-256 @ 950 MHz (243.2 GFLOPS in FP32)			Photo: 200 MP Video: 2K30	5G NR Sub-6 GHz, 4G LTE, dual-band GNSS (GPS, QZSS, BeiDou, Glonass, Galileo, NavIC), Wi-Fi 5 (1x1), Bluetooth 5.2	Q2 2025
Dimensity 7100[95] (MT6858 MT6858V/ZA)			4× Cortex-A78 @ 2.4 GHz 4× Cortex-A55 @ 2.0 GHz	Mali-G610 MC2 @ 1.0 GHz (256 GFLOPS in FP32)				5G NR Sub-6 GHz, 4G LTE, dual-band GNSS (GPS, QZSS, BeiDou, Glonass, Galileo, NavIC), Wi-Fi 6 (1x1), Bluetooth 5.4	Q4 2025
Dimensity 7200[96] (MT6886 MT6886V_A/CZA MT6886V_B/CZA)	ARMv9-A (64-bit)	4 nm (TSMC N4P)	2× Cortex-A715 @ 2.8 GHz 6× Cortex-A510 @ 2.0 GHz	Mali-G610 MC4 @ 1.13 GHz (578.6 GFLOPS in FP32)	LPDDR4X dual-channel 16-bit (32-bit) 2133 MHz (17.0 GB/s) LPDDR5 dual-channel 16-bit (32-bit) 3200 MHz (25.6 GB/s)	MediaTek NPU 650	MediaTek Imagiq 765 Photo: 200 MP Video: 4K30 HDR	5G NR Sub-6 GHz, 4G LTE, GNSS (GPS, QZSS, BeiDou, Glonass, Galileo, NavIC), Wi-Fi 6E (2x2), Bluetooth 5.3	Q1 2023[97]
Dimensity 7300e[98] (MT6858T)	ARMv8.2-A (64-bit)	6 nm (TSMC N6)	4× Cortex-A78 @ 2.5 GHz 4× Cortex-A55 @ 2.0 GHz	Mali-G610 MC2 @ 1.0 GHz (256 GFLOPS in FP32)	LPDDR4X dual-channel 16-bit (32-bit) 2133 MHz (17.0 GB/s) LPDDR5 dual-channel 16-bit (32-bit) 2750 MHz (22 GB/s)		Photo: 200 MP Video: 2K30	5G NR Sub-6 GHz, 4G LTE, dual-band GNSS (GPS, QZSS, BeiDou, Glonass, Galileo, NavIC), Wi-Fi 6 (1x1), Bluetooth 5.4	Q2 2026
Dimensity 7300[99] (MT6878 MT6878V/ZA MT6878V_A/ZA MT6878V_B/ZA MT6878V_E/ZA)		4 nm (TSMC N4)		Mali-G615 MC2 @ 1047 MHz (536.1 GFLOPS in FP32)	LPDDR4X dual-channel 16-bit (32-bit) 2133 MHz (17.0 GB/s) LPDDR5 dual-channel 16-bit (32-bit) 3200 MHz (25.6 GB/s)	MediaTek NPU 655	MediaTek Imagiq 950 Photo: 200 MP Video: 4K30 HDR	5G NR Sub-6 GHz, 4G LTE, GNSS (GPS, QZSS, BeiDou, Glonass, Galileo, NavIC), Wi-Fi 6E (2x2), Bluetooth 5.4	Q2 2024[100]
Dimensity 7300X[101] (MT6878V/FZA)									
Dimensity 7360[102] (MT6878V_G/ZA)									Q3 2025
Dimensity 7350[103] (MT6886V/TCZA)	ARMv9-A (64-bit)	4 nm (TSMC N4P)	2× Cortex-A715 @ 3.0 GHz 6× Cortex-A510 @ 2.0 GHz	Mali-G610 MC4 @ 1.3 GHz (665.6 GFLOPS in FP32)		MediaTek NPU 657	MediaTek Imagiq 765 Photo: 200 MP Video: 4K30 HDR	5G NR Sub-6 GHz, 4G LTE, GNSS (GPS, QZSS, BeiDou, Glonass, Galileo, NavIC), Wi-Fi 6E (2x2), Bluetooth 5.3	Q3 2024
Dimensity 7400[104] (MT6878V/TZA MT6878V_B/TZA)	ARMv8.2-A (64-bit)	4 nm (TSMC N4)	4× Cortex-A78 @ 2.6 GHz 4× Cortex-A55 @ 2.0 GHz	Mali-G615 MC2 @ 1.3 GHz (665.6 GFLOPS in FP32)		MediaTek NPU 655	MediaTek Imagiq 950 Photo: 200 MP Video: 4K30 HDR	5G NR Sub-6 GHz, 4G LTE, GNSS (GPS, QZSS, BeiDou, Glonass, Galileo, NavIC),	Q1 2025[105]
Dimensity 7400X[106] (MT6878V/TFZA)									

Dimensity 7450[107]								Wi-Fi 6E (2x2), Bluetooth 5.4	
Dimensity 7450X[108]									
Dimensity 7500[109] (MT6881)	ARMv9.3-A (64-bit)	4 nm (TSMC N4P)	4× C1-Pro @ 2.6 GHz 4× C1-Nano @ 2.0 GHz	Mali-G625 MC2	LPDDR5 dual-channel 16-bit (32-bit) 3200 MHz (25.6 GB/s)	MediaTek NPU 850	MediaTek Imagiq 1050 Photo: 200 MP Video: 4K30 HDR		Q2 2026

Dimensity 8000 Series

Model number	CPU ISA	Fab	Die size	CPU (Core/Freq)	GPU	Memory technology	APU (AI Processing Unit)	ISP	Wireless radio technologies	Released
Dimensity 8000[110] (MT6895 MT6895Z/CZA)	ARMv8.2-A (64-bit)	5 nm (TSMC N5)		4× Cortex-A78 @ 2.75 GHz 4× Cortex-A55 @ 2.0 GHz	Mali-G610 MC6 @ 700 MHz (537.6 GFLOPS in FP32)	LPDDR5 quad-channel 16-bit (64-bit) 3200 MHz (51.2 GB/s)	MediaTek NPU 580	MediaTek Imagiq 780 Photo: 200 MP, 32 MP + 32 MP + 16 MP Video: 4K HDR	5G NR Sub-6 GHz, 4G LTE, tri-band GNSS (GPS, QZSS, BeiDou, Glonass, Galileo, NavIC), Wi-Fi 6E (2x2), Bluetooth 5.3	Q1 2022[111]
Dimensity 8020[112] (Dimensity 1100 renamed)		6 nm (TSMC N6)		4× Cortex-A78 @ 2.6 GHz 4× Cortex-A55 @ 2.0 GHz	Mali-G77 MC9 @ 836 MHz (481.5 GFLOPS in FP32)	LPDDR4X quad-channel 16-bit (64-bit) 2133 MHz (34.1 GB/s)	MediaTek NPU 570	Photo: 108 MP, 32 MP + 16 MP Video: 4K HDR	5G NR Sub-6 GHz, 4G LTE, dual-band GNSS (GPS, QZSS, BeiDou, Glonass, Galileo, NavIC), Wi-Fi 6 (2x2), Bluetooth 5.2	Q2 2023
Dimensity 8050[113] (Dimensity 1300 renamed)				1× Cortex-A78 @ 3.0 GHz 3× Cortex-A78 @ 2.6 GHz 4× Cortex-A55 @ 2.0 GHz	Mali-G77 MC9 @ 886 MHz (510.3 GFLOPS in FP32)			Photo: 200 MP, 32 MP + 16 MP Video: 4K HDR		
Dimensity 8100[114] (MT6895 MT6895Z/TCZA MT6895Z_A/TCZA MT6895Z_B/TCZA MT6895ZB MT8795 MT8795Z/TNZA)		5 nm (TSMC N5)		4× Cortex-A78 @ 2.85 GHz 4× Cortex-A55 @ 2.0 GHz	Mali-G610 MC6 @ 860 MHz (660.5 GFLOPS in FP32)	LPDDR5 quad-channel 16-bit (64-bit) 3200 MHz (51.2 GB/s)	MediaTek NPU 580	MediaTek Imagiq 780 Photo: 200 MP, 32 MP + 32 MP + 16 MP Video: 4K HDR	5G NR Sub-6 GHz, 4G LTE, tri-band GNSS (GPS, QZSS, BeiDou, Glonass, Galileo, NavIC), Wi-Fi 6E (2x2), Bluetooth 5.3	Q1 2022
Dimensity 8200[115] (MT6896 MT6896Z/CZA MT6896Z_B/CZA)		4 nm (TSMC N4)		1× Cortex-A78 @ 3.1 GHz 3× Cortex-A78 @ 3.0 GHz 4× Cortex-A55 @ 2.0 GHz	Mali-G610 MC6 @ 950 MHz (729.6 GFLOPS in FP32)			MediaTek Imagiq 785 Photo: 320 MP, 32 MP + 32 MP + 32 MP Video: 4K60 HDR		Q4 2022[116]
Dimensity 8250[117] (MT6896 MT6896Z_C/CZA)										Q2 2024
Dimensity 8300[118] (MT6897 MT6897Z_A/ZA MT8792Z/NB)	ARMv9-A (64-bit)	4 nm (TSMC N4P)		1× Cortex-A715 @ 3.35 GHz 3× Cortex-A715 @ 3.2 GHz 4× Cortex-A510 @ 2.2 GHz	Mali-G615 MC6 @ 1400 MHz (2150.4 GFLOPS in FP32)	LPDDR5X quad-channel 16-bit (64-bit) 4266 MHz (68.2 GB/s)	MediaTek NPU 780	MediaTek Imagiq 980 Photo: 320 MP, 32 MP + 32 MP + 32 MP Video: 4K60 HDR	5G NR Sub-6 GHz, 4G LTE, tri-band GNSS (GPS, QZSS, BeiDou, Glonass, Galileo, NavIC), Wi-Fi 6E (2x2), Bluetooth 5.4	Q4 2023[119]
Dimensity 8350[120] (MT6897 MT6897Z_B/ZA MT8792Z/NA)										Q4 2024
Dimensity 8400[121] (MT6899 MT6899Z/ZA MT6899Z_A/ZA MT6899Z_B/ZA MT6899Z_C/ZA)	ARMv9.2-A (64-bit)		94.15 mm²[122]	1× Cortex-A725 @ 3.25 GHz 3× Cortex-A725 @ 3.0 GHz 4× Cortex-A725 @ 2.1 GHz	Mali-G720 MC7 @ 1300 MHz (2329.6 GFLOPS in FP32)		MediaTek NPU 880	MediaTek Imagiq 1080 Photo: 320 MP, 32 MP + 32 MP + 32 MP Video: 4K60 HDR		Q4 2024[123]
Dimensity 8450[124] (MT6899Z_D/ZA)										Q2 2025
Dimensity 8500[125] (MT6899Z_A/TZA)				1× Cortex-A725 @ 3.4 GHz 3× Cortex-A725 @ 3.2 GHz 4× Cortex-A725 @ 2.2 GHz	Mali-G720 MC8 @ 1508 MHz (3088.4 GFLOPS in FP32)	LPDDR5X quad-channel 16-bit (64-bit) 4800 MHz (76.8 GB/s)				Q1 2026[126]
Dimensity 8550[127]										Q2 2026

Dimensity 9000 Series

Model number	CPU ISA	Fab	Die size	CPU (Cores/Freq)	GPU	Memory technology	APU (AI Processing Unit)	ISP	Wireless radio technologies	Releas
Dimensity 9000[128] (MT6983 MT6983Z/CZA MT8798 MT8798Z/CNZA)	ARMv9-A (64-bit)	4 nm (TSMC N4)		1× Cortex-X2 @ 3.05 GHz 3× Cortex-A710 @ 2.85 GHz 4× Cortex-A510 @ 1.8 GHz	Mali-G710 MC10 @ 848 MHz (1085.4 GFLOPS in FP32)	LPDDR5 quad-channel 16-bit (64-bit) 3200 MHz (51.2 GB/s) LPDDR5X quad-channel 16-bit (64-bit) 3750 MHz (60.0 GB/s)	MediaTek NPU 590	MediaTek Imagiq 790 Photo: 320 MP Video: 4K HDR	5G NR Sub-6 GHz, 4G LTE, tri-band GNSS (GPS, QZSS, BeiDou, Galileo, Glonass, NavIC), Bluetooth 5.3, Wi-Fi 6E (2x2)	Q4 2021[1
Dimensity 9000+[130] (MT6983 MT6983W/CZA MT8798 MT8798Z/TNZA)				1× Cortex-X2 @ 3.2 GHz 3× Cortex-A710 @ 2.85 GHz 4× Cortex-A510 @ 1.8 GHz	Mali-G710 MC10 @ 848 or 950 MHz (1085.4 or 1216 GFLOPS in FP32)					Q2 2022[1
Dimensity 9200[132] (MT6985 MT6985W/CZA)		4 nm (TSMC N4P)		1× Cortex-X3 @ 3.05 GHz 3× Cortex-A715 @ 2.85 GHz 4× Cortex-A510 @ 1.8 GHz	Immortalis-G715 MC11 @ 981 MHz (2762.5 GFLOPS in FP32)	LPDDR5X quad-channel 16-bit (64-bit) 4266 MHz (68.2 GB/s)	MediaTek NPU 690	MediaTek Imagiq 890 Photo: 320 MP Video: 8K30 HDR, 4K60 HDR	5G NR Sub-6 GHz & mmWave, 4G LTE, quad-band GNSS (GPS, QZSS, BeiDou, Galileo, Glonass, NavIC), Bluetooth 5.3, Wi-Fi 7 (2x2)	Q4 2022[1
Dimensity 9200+[134] (MT6985 MT6985W/TCZA)				1× Cortex-X3 @ 3.35 GHz 3× Cortex-A715 @ 3.0 GHz 4× Cortex-A510 @ 2.0 GHz	Immortalis-G715 MC11 @ 981 MHz or 1.15 GHz (2762.5 or 3238.4 GFLOPS in FP32)					Q2 2023[1
Dimensity 9300[136] (MT6989 MT6989W/CZA MT8796 MT8796W/CNZA)	ARMv9.2-A (64-bit)	4 nm (TSMC N4P)[137]		1× Cortex-X4 @ 3.25 GHz 3× Cortex-X4 @ 2.85 GHz 4× Cortex-A720 @ 2.0 GHz	Immortalis-G720 MC12 @ 1300 MHz (3993.6 GFLOPS in FP32)	LPDDR5X quad-channel 16-bit (64-bit) 4800 MHz (76.8 GB/s)	MediaTek NPU 790	MediaTek Imagiq 990 Photo: 320 MP Video: 8K30 HDR, 4K60 HDR	5G NR Sub-6 GHz & mmWave, 4G LTE, quad-band GNSS (GPS, QZSS, BeiDou, Galileo, Glonass, NavIC), Bluetooth 5.4, Wi-Fi 7 (2x2)	Q4 2023[1
Dimensity 9300+[139] (MT6989 MT6989W/TCZA)				1× Cortex-X4 @ 3.4 GHz 3× Cortex-X4 @ 2.85 GHz 4× Cortex-A720 @ 2.0 GHz						Q2 2024[1
Dimensity 9400e[141] (MT6989T_e)									5G NR Sub-6 GHz, 4G LTE, quad-band GNSS (GPS, QZSS, BeiDou, Galileo, Glonass, NavIC), Bluetooth 6.0, Wi-Fi 7	Q2 2025[1
Dimensity 9400[143] (MT6991 MT6991Z/CZA MT6991W/CZA)		3 nm (TSMC N3E)	126.26 mm²[144]	1× Cortex-X925 @ 3.62 GHz 3× Cortex-X4 @ 3.3 GHz 4× Cortex-A720 @ 2.4 GHz	Immortalis-G925 MC12 @ 1612 MHz (4952.1 GFLOPS in FP32)	LPDDR5X quad-channel 16-bit (64-bit) 5333 MHz (85.3 GB/s)	MediaTek NPU 890	MediaTek Imagiq 1090 Photo: 320 MP Video: 8K60 HDR		Q4 2024[1
Dimensity 9400+[146] (MT6991 MT6991Z/TCZA MT6991Z/TCZB MT8799Z/TNZB)				1× Cortex-X925 @ 3.73 GHz 3× Cortex-X4 @ 3.3 GHz 4× Cortex-A720 @ 2.4 GHz						Q2 2025[1
Dimensity 9500s[148] (MT6991Z/SCZB MT6991Z/ECZB)					Immortalis-G925 MC11 @ 1612 MHz (4539.4 GFLOPS in FP32) or MC12 @ 1612 MHz (4952.1 GFLOPS in FP32)			MediaTek Imagiq Photo: 320 MP, 108MP @30fps, 3x36MP @30fps Video: 8K60 HDR	5G NR Sub-6 GHz & mmWave, 4G LTE, quad-band GNSS (GPS, QZSS, BeiDou, Galileo, Glonass, NavIC), Bluetooth 5.4, Wi-Fi 7	Q1 2026[1
Dimensity 9500[150] (MT6993 MT6993W/CZA)	ARMv9.3-A (64-bit)	3 nm (TSMC N3P)	140.57 mm²[151]	1× C1-Ultra @ 4.21 GHz 3× C1-Premium @ 3.5 GHz 4× C1-Pro @ 2.7 GHz	Mali G1-Ultra MC12 @ 1716 MHz (5271.6 GFLOPS in FP32)		MediaTek NPU 990	MediaTek Imagiq 1190 Photo: 320 MP Video: 8K60 HDR, 4K120 HDR	5G NR Sub-6 GHz, 4G LTE, quad-band GNSS (GPS, QZSS, BeiDou, Galileo, Glonass, NavIC), Bluetooth 6.0, Wi-Fi 7	Q3 2025[1

Genio Series (IoT)

MediaTek Genio 130/130A

- Genio 130 (MT7931): Cortex-M33 MCU + Wi-Fi 6 + BLE 5[153]
- Genio 130A (MT7933): Cortex-M33 MCU + Wi-Fi 6 + BLE 5 + HiFi4 DSP

MediaTek AIoT i300/i500

- i300A (MT8362A) • ARMv8-A • Quad-core ARM Cortex-A35 @ 1.5 GHz
- i300B (MT8362B) • ARMv8-A • Quad-core ARM Cortex-A35 @ 1.3 GHz
- i500 (MT8385) • ARMv8-A • Quad-core ARM Cortex-A73 @ 2.0 GHz +

  • Genio 500 (MT8385) | + Quad-core ARM Cortex-A53 @ 2.0 GHz

MediaTek Genio platform

IoT Yocto currently supports these MediaTek Genio platform:[154]

- Genio 350 (MT8365) • Quad-core ARM Cortex-A53 (64-bit), GPU: Mali-G52 MC1
- Genio 510 (MT8370) • 2x ARM Cortex-A78 / 4x ARM Cortex-A55, GPU: Mali-G57
- Genio 700 (MT8390) • 2x ARM Cortex-A78 / 6x ARM Cortex-A55, GPU: Mali-G57
- Genio 1200 (MT8395) • 4x ARM Cortex-A78 / 4x ARM Cortex-A55 @2.2/2.0GHz

Application Processor (8 Core, VFBGA-1046, GPU: Mali-G57, OpenGL ES 3.2 3D)

Model number	CPU ISA	Fab	CPU (Core/Freq)	GPU	Memory technology	Wireless radio technologies	Release
AIoT i300A[155] (MT8362A)[156]	ARMv8 (64-bit)	14 nm	4× ARM Cortex-A35 @ 1.5 GHz	IMG PowerVR GE8300 @ ? MHz	LPDDR3/3L @ 800 MHz, DDR4 (32-bit) @ 667 MHz	Wi-Fi 5 (ac), Bluetooth 5.0	Q1 2020
AIoT i300B[157] (MT8362B)[158]			4× ARM Cortex-A35 @ 1.3 GHz			Wi-Fi 5 (ac), Bluetooth 5.0	Q1 2020
AIoT i300PA[159] (MT8768V/WA)	ARMv8 (64-bit)	12 nm	4× ARM Cortex-A53 @ 2.0 GHz	IMG PowerVR GE8320 @ 650 MHz	LPDDR3/3L @ 800 MHz, DDR4 (32-bit) @ 667 MHz	Wi-Fi 5 (ac), Bluetooth 5.0	Q1 2020
AIoT i300PB[160] (MT8768V/WB)			4× ARM Cortex-A53 @ 2.0 GHz			Wi-Fi 5 (ac), Bluetooth 5.0	Q1 2020
Genio 350[161] (MT8365)[162]	ARMv8 (64-bit)	14 nm	4× ARM Cortex-A53 @ 2.0 GHz	Mali-G52 MC1 @ 800 MHz	LPDDR3/4 DRAM (32-bit)	Wi-Fi 5 (ac), Bluetooth 5.0	Q3 2020
Genio 500[163] (AIoT i500) (MT8385)[164]	ARMv8 (64-bit)	12 nm	4× ARM Cortex-A73 @ 2.0 GHz 4× ARM Cortex-A53 @ 2.0 GHz	Mali-G72 MP3 @ 800 MHz	LPDDR4 32-bit (2ch x 16-bit) @ 3733 Mbps	Wi-Fi 5 (ac), Bluetooth 5.0	Q3 2020
AIoT i500P[165] (MT8788A)[166]			4× ARM Cortex-A73 @ 2.0 GHz 4× ARM Cortex-A53 @ 2.0 GHz	Mali-G72 MP3 @ 800 MHz		Wi-Fi 5 (ac), Bluetooth 5.0	Q3 2020
Genio 510[167] (MT8370)[168]	ARMv8.2 (64-bit)	6 nm	2× ARM Cortex-A78 @ 2.2 GHz 4× ARM Cortex-A55 @ 2.0 GHz	Mali-G57 MC2 @ ? MHz	LPDDR4/4X DRAM (64-bit)	Wi-Fi 6 (ax), Bluetooth	Q2 2024
Genio 700[169] (MT8390)[170]			2× ARM Cortex-A78 @ 2.2 GHz 6× ARM Cortex-A55 @ 2.0 GHz	Mali-G57 MC3 @ ? MHz		Wi-Fi 6 (ax), Bluetooth	Q1 2020
Genio 1200[171] (MT8395[172] MT8395AV MT8395AV/ZA)			4× ARM Cortex-A78 @ 2.2 GHz 4× ARM Cortex-A55 @ 2.0 GHz	Mali-G57 MC5 @ 880 MHz[173]		Wi-Fi 6 (ax), Bluetooth 5.2	Q2 2022

Kompanio Series

Model number	CPU ISA	Fab	CPU (Core/Freq)	GPU	Memory technology	Wireless radio technologies	Released
Kompanio 500[174] (MT8183V)[175] (prev. *Helio P60T*)[176]	ARMv8	12 nm	4× ARM Cortex-A73 @ 2.0 GHz 4× ARM Cortex-A53 @ 2.0 GHz	Mali-G72 MP3 @ 800 MHz	LPDDR3 LPDDR4/4X	Wi-Fi 5 (ac), Bluetooth, FM Radio, GPS	Q4 2019
Kompanio 520[177] (MT8186GV)	ARMv8.2	12 nm	2× ARM Cortex-A76 @ 2.0 GHz 6× ARM Cortex-A55 @ 2.0 GHz	Mali-G52 MC2 @ ? MHz	LPDDR4X @ 3733 MT/s	Wi-Fi 6 (ax)	Q4 2022
Kompanio 528[178] (MT8186TV)			2× ARM Cortex-A76 @ 2.2 GHz 6× ARM Cortex-A55 @ 2.0 GHz				
Kompanio 540[179]		6 nm	2× ARM Cortex-A78 @ 2.6 GHz 6× ARM Cortex-A55 @ 2.0 GHz	Mali-G57 MC2	LPDDR5 @ 6400 MT/s LPDDR4X @ 4266 MT/s	Wi-Fi 7, Bluetooth	Q4 2025
Kompanio 800T[180] (MT8771)		6 nm (TSMC N6)	2× ARM Cortex-A76 @ 2.4 GHz 6× ARM Cortex-A55 @ 2.0 GHz	Mali-G57 MC2 @ ? MHz	LPDDR4X @ 4266 MT/s	5G NR, 4G LTE, dual-band GNSS (QZSS, GPS, BeiDou, Glonass, Galileo, NavIC), Wi-Fi 5 (1x1), Bluetooth 5.1	Q1 2022
Kompanio 820[181] (MT8192V)		7 nm	4× ARM Cortex-A76 @ 2.2 GHz 4× ARM Cortex-A55 @ 2.0 GHz	Mali-G57 MC5 @ ?MHz	LPDDR4X	Wi-Fi 5 (ac), Bluetooth, GPS	Q2 2021
Kompanio 828[182] (MT8192T)			4× ARM Cortex-A76 @ 2.6 GHz 4× ARM Cortex-A55 @ 2.0 GHz				
Kompanio 838[183] (MT8188GV)		6 nm	2× ARM Cortex-A78 @ 2.6 GHz 6× ARM Cortex-A55 @ 2.0 GHz	Mali-G57 MC3 @ ? MHz	LPDDR4X @ 3733 MT/s DDR4 @ 3200 MT/s	Wi-Fi 6E (ax)	Q3 2024
Kompanio 900T[184] (MT8791)			2× ARM Cortex-A78 @ 2.4 GHz 6× ARM Cortex-A55 @ 2.0 GHz	Mali-G68 MC4 @ ? MHz	LPDDR4X LPDDR5	Wi-Fi 6 (ax), Bluetooth 5.2, GPS	Q3 2021
Kompanio 1200[185] (MT8195GV)			4× ARM Cortex-A78 @ 2.6 GHz 4× ARM Cortex-A55 @ 2.0 GHz	Mali-G57 MC5 @ ? MHz	LPDDR4X @ 4266 MT/s	Wi-Fi 5 (ac), Bluetooth, GPS	Q1 2021
Kompanio 1300T[186] (MT8797)			4× ARM Cortex-A78 @ 2.6 GHz 4× ARM Cortex-A55 @ 2.0 GHz	Mali-G77 MC9 @ ? MHz		Wi-Fi 6 (ax), Bluetooth, GPS	Q3 2021
Kompanio 1380[187] (MT8195TV)			4× ARM Cortex-A78 @ 3.0 GHz 4× ARM Cortex-A55 @ 2.0 GHz	Mali-G57 MC5 @ ? MHz		Wi-Fi 6E (ax), Bluetooth, GPS	Q1 2022

Kompanio Ultra series

Model number	CPU ISA	Fab	CPU (Core/Freq)	Cache (L2/L3/SLC)	GPU	NPU	AI performance	Memory technology	Storage	Display support	(dec
Kompanio Ultra 910[188]	ARMv9.2	3 nm (TSMC 2nd-gen 3 nm)	1× Arm Cortex-X925 @ up to 3.62 GHz 3× Arm Cortex-X4 @ ? GHz 4× Arm Cortex-A720 @ ? GHz	X925: 2 MB L2 X4: 1 MB L2 (each) A720: 512 KB L2 (each) 12 MB L3 10 MB SLC	Arm Immortalis-G925 MC11	MediaTek NPU 890	Up to 50 TOPS	LPDDR5X @ 8533 MT/s	UFS 4.0	Internal: up to 4K60 External: up to 2× 4K (DP MST)	Decode (HEVC Encode (HEVC bit (HE

Standalone application and tablet processors

Model number	CPU ISA	Fab	CPU (Core/Freq)	CPU cache	GPU	Memory technology	Wireless radio technologies	Released
MT8317	ARMv7 (32- bit)	40 nm	1.0 GHz dual-core ARM Cortex-A9		PowerVR SGX531 Ultra @ 522 MHz			3Q 2013
MT8317T			1.2 GHz dual-core ARM Cortex-A9		PowerVR SGX531 Ultra @ 522 MHz			3Q 2013
MT8377			1.2 GHz dual-core ARM Cortex-A9	1 MB L2	PowerVR SGX531 Ultra @ 522 MHz		3G, HSPA, HSPA+	3Q 2013
MT8312 [189]		28 nm (TSMC 28HPM)	1.3 GHz dual-core ARM Cortex-A7	256 KB L2	Mali-400 @ 500 MHz			
MT8321			1.3 GHz quad-core ARM Cortex-A7		Mali-400[2]		UMTS, HSPA+ R8, TD-SCDMA, EDGE, Wi-Fi, Bluetooth, FM, GPS	2014
MT8382 [190][191]			1.3 GHz quad-core ARM Cortex-A7	256 KB L2	Mali-400 MP2 @ 500 MHz		Multi-mode R8 HSPA+, TD-SCDMA, GPS, Wi-Fi, Bluetooth	1H 2014
MT8117			1.2 GHz dual-core ARM Cortex-A7		PowerVR SGX544 @ 156 MHz			1H 2014
MT8121			1.3 GHz quad-core ARM Cortex-A7		PowerVR SGX544 @ 156 MHz		Wi-Fi, GPS, Bluetooth	2H 2013
MT8125 [192]			1.2 GHz quad-core ARM Cortex-A7	1 MB L2	PowerVR SGX544 @ 256 MHz	32-bit DDR3L, LPDDR2		1H 2013
MT8389			1.2 GHz quad-core ARM Cortex-A7	1 MB L2	PowerVR SGX544 @ 286 MHz	32-bit DDR3L, LPDDR2	3G	1H 2013
MT8389T			1.5 GHz quad-core ARM Cortex-A7	1 MB L2	PowerVR SGX544 @ 357 MHz	32-bit DDR3L, LPDDR2	3G	1H 2013
MT8135 [193]			1.7 GHz dual-core ARM Cortex-A15 1.2 GHz dual-core ARM Cortex-A7		PowerVR G6200 (2 clusters) @ 450 MHz			2013
MT8135V [193][194]			1.5 GHz dual-core ARM Cortex-A15 1.2 GHz dual-core ARM Cortex-A7		PowerVR G6200 (2 clusters) @ 450 MHz	32-bit DDR3L		Q3 2014
MT8127 [195][196]			1.3 GHz quad-core ARM Cortex-A7	512 KB L2	Mali-450 MP4 @ 600 MHz	32-bit DDR3 666 MHz (5.3 GB/s)	Wi-Fi, Bluetooth, FM, GPS	2014
MT8151			1.7 GHz octa-core ARM Cortex-A7		Mali-450 MP4		Wi-Fi, GPS Bluetooth	
MT8392 [197]			2.0 GHz octa-core ARM Cortex-A7	32 KB L1 1 MB L2	Mali-450 MP4 @ 700 MHz		3G	1H 2014
MT8735 [198]	ARMv8 (64- bit)		1.3 GHz quad-core ARM Cortex-A53		Mali-T720 MP2	LPDDR3	LTE Cat 4, 4G, 3G, 2G, Dual-band Wi-Fi, FM, Bluetooth, GPS, BeiDou, Glonass	Q2 2015
MT8732 [199]			1.5 GHz quad-core ARM Cortex-A53	512 KB L2	Mali-T760 MP2 @ 500 MHz	LPDDR3 800 MHz (6.4 GB/s)	LTE Cat 4, 4G, 3G, 2G, Wi-Fi, FM, Bluetooth, GPS, BeiDou, Glonass	Q4 2014
MT8752 [200]			1.7 GHz octa-core ARM Cortex-A53		Mali-T760 MP2 @ 700 MHz		LTE Cat 4, 4G, 3G, 2G	Q4 2014
MT8161			1.3 GHz quad-core ARM Cortex-A53		Mali-T720 MP2	DDR3/3L 800 MHz		
MT8163 (V/B)[201]			1.3 GHz quad-core ARM Cortex-A53		Mali-T720 MP2 @ 520 MHz	DDR3/3L 800 MHz	Dual-band Wi-Fi, Bluetooth, FM, GPS	Q2 2015

MT8163 (V/A)[201]			1.5 GHz quad-core ARM Cortex-A53		Mali-T720 MP2 @ 600 MHz	DDR3/3L 800 MHz	Dual-band Wi-Fi, GPS, Bluetooth, FM	Q2 2015
MT8165			1.5 GHz quad-core ARM Cortex-A53		Mali-T760 MP2	DDR3/3L 800 MHz		Q4 2014
MT8166 [202][203]			2.0 GHz quad-core ARM Cortex-A53	1 MB	PowerVR GE8300 Mali-T760 MP2	LPDDR4 LPDDR3, DDR3-800	Dual-band ac, Wi-Fi Direct, Bluetooth, GPS	Q2 2021
MT8167A [204][205]			1.5 GHz quad-core ARM Cortex-A35		PowerVR GE8300 (1 cluster)	DDR3, LPDDR3, DDR4	Dual-band ac, Wi-Fi Direct, Bluetooth, GPS	2017
MT8173 [206][207]			2.0 GHz dual-core ARM Cortex-A72 2.0 GHz dual-core ARM Cortex-A53		PowerVR GX6250 (2 clusters) @ 700 MHz			Q1 2015
MT8176 [208]			2.0 GHz dual-core ARM Cortex-A72 1.6 GHz quad-core ARM Cortex-A53		PowerVR GX6250 (2 clusters) @ 600 MHz	LPDDR3 2ch 32-bit 933 MHz	Wi-Fi ac, Bluetooth, FM, GPS	Q1 2016
MT8766 [209][210][211]		12 nm	2.0 GHz quad-core ARM Cortex-A53	1 MB	PowerVR GE8300	LPDDR3, LPDDR4	Dual-band ac Wi-Fi, Bluetooth, GPS, GSM, GPRS, EDGE, TD-HSxPD, TD-SCDMA, LTE-TDD/FDD, Wi-Fi Direct	Q2 2020
MT8768T [212][213] **/ P22T**[214]		12 nm	2.3 GHz quad-core ARM Cortex-A53 1.8 GHz quad-core ARM Cortex-A53	1 MB	PowerVR GE8320	LPDDR3, LPDDR4	Dual-band ac Wi-Fi, Bluetooth, GPS, GSM, GPRS, EDGE, TD-HSxPD, TD-SCDMA, LTE-TDD/FDD, Wi-Fi Direct	Q1 2018
MT8693			2.0 GHz dual-core ARM Cortex-A72 1.8 GHz quad-core ARM Cortex-A53		PowerVR GX6250	LPDDR3 2ch DRAM	Wi-Fi, Bluetooth (by MT6630)	

Digital television SoCs

Smart TV SoCs

Model number	CPU (Core/Freq)	GPU	Video decoder	Video encoder	Integrated connectivity	Segment	Released
MT5327[215]	Dual-core ARM Cortex-A9 @ 1.2 GHz	SGX543 MP2 @ 400 MHz	1080p@60 fps MPEG1/2/4, H.264, VC-1, 4K/2K@30 fps H.264	1080p H.264	3x HDMI 1.4a, 2.4 GHz Wi-Fi/BT, MHL, USB 3.0	Android TV, UltraHD TV	H1 2014
MT5329	Dual-core ARM Cortex-A17 @ 1.0 GHz + Dual-core ARM Cortex-A7 @ 700 MHz	Mali-T624 MP4	4K HEVC/VP9 @60 fps			Android TV, UltraHD TV	2014
MT5366[216]			MPEG1/2/4, H.264, VC-1, RMVB, AVS		TCON/OD, Ethernet MAC	60 Hz cost-efficient TV	
MT5389[217]			MPEG1/2/4, H.264, VC-1, RMVB, AVS, VP8		TCON, 3x HDMI 1.4	Basic 60 Hz 3D TV	
MT5395[218]			MPEG1/2/4, H.264, VC-1, RMVB, AVS	720p H.264	TCON/OD, Ethernet PHY, HDMI 1.4	Full HD 120 Hz, 3D LCD TV with ME/MC	
MT5396[219]	Dual-core ARM Cortex-A9 @ 900 MHz		MPEG1/2/4, H.264, VC-1, RMVB, AVS, VP8		TCON/OD, Ethernet PHY	Full HD 120 Hz, 3D LCD TV with ME/MC (Smart TV)	
MT5398[220]			MPEG-1/2/4, H.264, VC-1, RMVB, AVS, VP8		TCON, HDMI 1.4	Smart 3D TV	
MT5505[221]		Mali-4xx MP2			TCON, HDMI 1.4	Smart 3D TV	
MT5561	Single-core ARM11 @ 700 MHz				CVBS, HDMI 1.4, VGA (D-sub), YPbPr	Entry-level Connected DTV	
MT5580[222]	Single-core ARM Cortex-A9 @ 800 MHz				TCON, Ethernet PHY + MAC, HDMI 1.4	Connected 3D TV	
MT5582	Quad-core ARM Cortex-A53		H.265, HEVC, VP-9	1080p H.264	LVDS, HDMI 1.4, USB 2.0	Full HD Smart TVs	
MT5592	Dual-core ARM Cortex-A9 @ 1.0 GHz		AVS, H.264, MPEG-1/2/4, RMVB, VC-1, VP-8	4K H.264	CVBS, HDMI, VGA (D-sub), YPbPr, Ethernet	Smart DTV	
MT5595[223]	Dual-core ARM Cortex-A17 + Dual-core ARM Cortex-A7	Mali-T6xx[224]	4K HEVC/VP9 @ 60 fps			Android TV, UltraHD	Q1 2015
MT5596	Quad-core ARM Cortex-A53 @ 1.1 GHz	Mali-T860 MP2	H.265, HEVC, VP-9	4K H.264, VP8	HDMI 2.0/1.4 with HDCP 2.2, Ethernet, Wi-Fi USB 2.0, USB 3.0	Flagship 64-bit 4K UHD SmartTV	
MT5597	Quad-core ARM Cortex-A53 @ 1.0 GHz		H.264, H.265/HEVC, MPEG-1/2/4, VP-9		HDMI 2.0/1.4 with HDCP 2.2, USB 2.0, USB 3.0	Cost-effective Digital TVs	
MT9638	Quad-core ARM Cortex-A55 @ 1.5 GHz	Mali-G52 3EE MC1	AV1, AVS2, HEVC, VP9, H.264, SHVC 4K60@10bit	4K H.264	HDMI 2.0/1.4 with HDCP 2.2, USB 2.0, USB 3.0, HDMI 2.1	High Performance 4K TVs	
MT9675 / MT9632 / MT9602	Quad-core ARM Cortex-A53 @ 1.5 GHz	Mali-G52 2EE MC1			HDMI 2.0/1.4 with HDCP 2.2, HDMI 2.1a, USB 2.0, USB 3.0		
MT9685 / MT9612	Quad-core ARM Cortex-A55 @ 1.5 GHz						
MT9686 / MT9652 / MT9613	Quad-core ARM Cortex-A73 @ 1.4 GHz					Premium 4K TV	
MT9950 / MT5895 (S900) / MT9970A	Quad-core ARM Cortex-A73 @ 1.8 GHz	Mali-G52 2EE MC2 @ 800 MHz	HEVC: 8K@60 Hz, VP9: 8K@30 Hz, H.264: 8K@30 Hz, AV1: 8K@30 Hz, AVS2: 4K@60 Hz			Flagship 8K TV	Q3 2019

Pentonic Series

Model number	CPU (Core / Freq)	GPU	Memory technology	Video decoder	HDR formats	AI capabilities (MediaTek DLA)	Integrated connectivity	Segment	Released
Pentonic 2000 (MT9902[225] MT9982)[226]	Quad-core ARM Cortex-A76 @ 1.8 GHz	Mali-G57 MC3 @ 1.0 GHz	96-bit LPDDR4X @ 2166 MHz (51.2 GB/s)	HEVC (H.265), VVC (H.266), VP9, AV1, AVS3	▪ HDR10 (SMPTE2084) ▪ HDR10+ Adaptive & Gaming ▪ Dolby Vision IQ with Precision Detail ▪ BBC / NHK HLG ▪ Technicolor / Philips JHDR (ESTI TS 103 433)	▪ AI-Voice ▪ AI-SR 2.0+ with detail creation ▪ AI-PQ Scene Recognition 2.0 ▪ AI-PQ Object Recognition 3.0 with depth and richer PQ enhancement	▪ External: HDMI 2.1 x4 (48 Gbps), USB 3.2 Gen 1 (5 Gbps) x2, USB 2.0, Wi-Fi 6E, optional 5G ▪ Internal: PCIe Gen 3 2x, USB 3.2 Gen 1 (5 Gbps), UFS 2.1	Flagship 8K Smart TV	Q4 2021
Pentonic 1000 (MT9972)[227]	Quad-core ARM Cortex-A73 @ 2.0 GHz	Mali-G57 MC2 @ 800 MHz	64-bit LPDDR4X @ 2166 MHz (34.1 GB/s)			▪ AI-SR 2.0 with detail reconstruction ▪ AI-PQ Scene Recognition 2.0 ▪ AI-PQ Object Recognition 3.0 with depth and richer PQ enhancement	▪ External: HDMI 2.1 x2, HDMI 2.0 x2, USB 3.2 Gen 1 (5 Gbps) x2, USB 2.0, Wi-Fi 6E ▪ Internal: USB 3.2 Gen 1 (5 Gbps), eMMC 5.1	Flagship UltraHD (4K)[228] Smart TV	Q4 2022
Pentonic 900 (MT9950)	Quad-core ARM Cortex-A73 @ 1.8 GHz	Mali-G52 MC2 @ 800 MHz	96-bit LPDDR4 @ 3700 MHz						
Pentonic 800 (MT9655)[229]	Quad-core ARM Cortex-A73 @ 1.8 GHz	Mali-G57 MC1 @ ? MHz	64-bit DDR4 @ 1600 MHz (25.6 GB/s)			▪ AI-Voice ▪ AI-SR 3.0 ▪ AI-Contrast 2.0 ▪ AI-PQ Scene Recognition 2.0+ ▪ AI-PQ Object Recognition 2.5	▪ External: DisplayPort 1.4a, HDMI 2.1a x4, USB 3.2 Gen 1 (5 Gbps), USB 2.0, Wi-Fi 6/6E/7 ▪ Internal: USB 3.2 Gen 1 (5 Gbps), eMMC 5.1	Premium UltraHD (4K)[230] Smart TV	Q3 2024
Pentonic 700 (MT9618[231] MT9653[232] MT9689)	Quad-core ARM Cortex-A73 @ 1.4 GHz	Mali-G52 MC1 @ ? MHz				▪ AI-Voice ▪ AI-SR 2.0 4K ▪ AI-PQ Scene Recognition 2.0 ▪ AI-PQ Object Recognition 2.5	▪ External: HDMI 2.1 x2, HDMI 2.0 x2, USB 3.2 Gen 1 (5 Gbps), USB 2.0, Wi-Fi 6E/7 ▪ Internal: USB 3.2 Gen 1 (5 Gbps), eMMC 5.1		Q3 2022

Wearable device SoCs

Model number	CPU ISA	Fab	CPU (Core / Freq)	CPU cache	GPU	Memory technology	Wireless radio technologies	Released
MT2502 / MT2503 (now managed and sold to Airoha)	ARMv7	?	Single-core ARM7EJ-S @ 260 MHz				Bluetooth 2.1 EDR/4.0 LE, GPRS, GSM	Q3 2014
MT2523D (now managed and sold to Airoha)	ARMv7E-M	?	Single-core ARM Cortex-M4 with FPU @ 208 MHz				Bluetooth 2.1 EDR/4.0 LE	
MT2523G (now managed and sold to Airoha)		?					Bluetooth 2.1 EDR/4.0 LE, GPS	
MT2601[233] (now managed and sold to Airoha)	ARMv7	28 nm	Dual-core ARM Cortex-A7 @ 1.2 GHz	256 KB L2		LPDDR2/3 up to 512 MB	3G, GPS, Wi-Fi, Bluetooth 2.1 EDR/4.1 LE	Q1 2015
MT3303	ARMv7	?	Single-core ARM7EJ-S			8 MB RAM + 8 MB Flash	GPS, Glonass, BeiDou, QZSS	
MT3332 / MT3333 (now managed and sold to Airoha)	ARMv7	?	Single-core ARM7EJ-S @ 158 MHz			8 MB SPI (external)	GPS (US), QZSS (JP), Glonass (RU), Galileo (EU), Beidou (CN)	Q1 2013
MT3336 / MT3337 (now managed and sold to Airoha)	ARMv7	?	ARM7EJ-S @ 98 MHz			8 MB SPI (external)	GPS, GPIO, SPI, I2C, UART (x3)	
MT3339 (now managed and sold to Airoha)	ARMv7	?	ARM7EJ-S @ 98 MHz (low power)			8 MB SPI (external)	GPS, GPIO, SPI, I2C, UART (x3)	Q4 2011
MT6280	ARMv7-R	?	Single-core ARM Cortex-R4			LPDDR1/2		
MT6572	ARMv7	28 nm	Dual-core ARM Cortex-A7 @ 1.4 GHz	32 KB L1, 256 KB L2	Mali-400 MP1 @ 500 MHz	LPDDR2 266 MHz	2G, Wi-Fi, Bluetooth	June 2013

Internet-of-Things (IoT) SoCs

Model number	CPU ISA	Fab	CPU (Core / Freq)	Embedded memory	Cellular	I/O	Released
MT2621	ARMv7	?	Single-core ARM7 @ 260 MHz	160 KB SYSRAM + 4 MB SIPRAM	NB-IoT R14, GSM/GPRS	LCM, Camera Audio AMP, Bluetooth 4.2	Nov 2017
MT2625	ARMv7E-M	?	Single-core @ 104 MHz ARM Cortex-M with FPU	4 MB PSRAM + 4 MB NOR	NB-IoT R14	I2C, I2S, UART, SDIO, PCM, SPI	June 2017
MT3620	ARMv7-A	?	Single-core @ 500 MHz ARM Cortex-A7 + Dual-core @ 200 MHz ARM Cortex-M4 with FPU	?	?	ADC, GPIO, UART, I2C, I2S, PWM, SPI	
MT8362A (i300A)	ARMv8-A	?	Quad-core @ 1.5 GHz ARM Cortex-A35	-	-	HDMI, S/PDIF, I2C, IR, Ethernet, MIPI CSI-2, SDIO 3.0, SPI, UART, USB 2.0 OTG/Host	
MT8362B (i300B)	ARMv8-A	?	Quad-core @ 1.3 GHz ARM Cortex-A35			GPIO, USB, I2C, I2S, LVDS/MIPI	
MT8385 (i500) *Genio 500*	ARMv8-A	?	Quad-core @ 2.0 GHz ARM Cortex-A73 + Quad-core @ 2.0 GHz ARM Cortex-A53			I2C, I2S, LVDS/MIPI, MIPI CSI-2, SPI, USB	

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Model numbers	Integrated platform features				
	PSU	Baseband	RF	Antenna	Modem DSP
MT2621	Yes	Yes	Yes	Yes	Yes
MT2625	Yes	Yes	Yes	No	Yes

Wireless connectivity SoC

MT6630 (2014) is a five-in-one combo wireless SoC integrating dual-band 802.11a/b/g/n/ac, advanced Wi-Fi Direct and Miracast support, Bluetooth 4.1, ANT+, tri-band GPS and FM transceiver. It is intended to be paired with chips like the MT6595 octa-core smartphone processor which features an integrated 4G modem but no built-in Wi-Fi/Bluetooth/GPS/FM functionality. It could also be used in tablets in conjunction with a stand-alone application processor.[234]

Wi-Fi access points and routers chips

- RT3883 includes a MIPS 74KEc CPU and an IEEE 802.11n-conformant WNIC.[235]
- RT6856 includes a MIPS 34KEc CPU and an IEEE 802.11ac-conformant WNIC.[236]

Filogic Wi-Fi 7 chips

- Wi-Fi standard: Wi-Fi 7 (IEEE 802.11a/b/g/n/ac/ax/be)

  Manufacturing node: 6 nm

Chipset	Launch date	2.4 GHz antenna config	5 GHz antenna config	6 GHz antenna config	Max through-put	QAM	Max band-width	MLO	MRU	AFC	Bluetooth	. CPU cores .	NPU	Interfaces	Ethernet connectivity
MT7925 Filogic 360 [237]	Nov 2023	2x2	2x2	2x2	Up to 2.9 Gbit/s	4096-QAM	Up to 160 MHz	Yes	Yes	No	Dual 5.4, LE Audio		No	PCIe 2.1 or USB 3.0	No
MT7927 Filogic 380 [238]	May 2022	2x2	2x2	2x2	Up to 6.5 Gbit/s	4096-QAM	Up to 320 MHz	Yes	Yes	No	BT 5.4, LE Audio		No	PCIe 4.0 or USB 3.0	No
MT7991 Filogic 660	Nov 2023	2x2	3x3	3x3	Up to 6.5 Gbit/s	4096-QAM	Up to 160 MHz	Yes	Yes	No	No		No	PCIe 3.0 or USB 3.0	No
MT7992 Filogic 660	May 2023	4x4	4x4	4x5	Up to 7.2 Gbit/s	4096-QAM	Up to 160 MHz	Yes	Yes	No	No		No	PCIe 3.0 or USB 3.0	No
MT7995 Filogic 680	Nov 2023	2x2	3x3	3x3	Up to 8.5 Gbit/s	4096-QAM	Up to320 MHz	Yes	Yes	No	No		No	PCIe 3.0 or USB 3.0	No
MT7996 Filogic 680 [239]	May 2023	4x4	4x4	4x5	Up to 13.5 Gbit/s	4096-QAM	Up to 320 MHz	Yes	Yes	No	No		No	PCIe 3.0 or USB 3.0	No
MT7988D Filogic 860 [240][241]	Nov 2023	4x4	4x4	4x5	Up to 7.2 Gbit/s	4096-QAM	Up to 160 MHz	Yes	Yes	Yes	No	Triple ARM (Cortex-A73) @1.8 GHz	Yes	PCIe 3.0, USB 3.0, UART, SD, SPI, PWM, GPIO, OTP	1× USXGMII (10 Gbps), 1× 2.5Gbe PHY + 4× 1GbE ports
MT7988A Filogic 880 [242][243]	May 2022	4x4	4x4	4x5	Up to 19 Gbit/s	4096-QAM	Up to 320 MHz	Yes	Yes	Yes	No	Quad ARM (Cortex-A73) @1.8 GHz	Yes	PCIe 4.0, USB 3.0, UART, SD, SPI, PWM, GPIO, OTP	2× USXGMII or USXGMII, 1× 2.5Gbe PHY + 4× 1GbE ports

See also

- List of Qualcomm Snapdragon systems on chips
- List of Samsung Exynos processors

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