

	Product Family	i.MX 8 Advanced Graphics, Performance and Virtualization	i.MX 8M Advanced Audio, Voice and Video	i.MX 8M Mini Embedded Consumer and Industrial Applications	i.MX 8M Nano Embedded Consumer and Industrial Applications	i.MX 8M Plus Machine Learning, Vision, Multimedia and Industrial IoT	i.MX 8X Safety certifiable and efficient performance
CPU, GPU, and DSP	Cortex®-A72	2	-	-	-	-	-
	Cortex®-A53	4	4	4	4	4	-
	Cortex®-A35	-	-	-	-	-	4
	Cortex®-M4F	2	1	1	-	-	1
	Cortex®-M7	-	-	-	1	1	-
	Cortex®-DSP	1	-	-	-	1	1
	Cortex®-NPU	-	-	-	-	1	-
	Cortex®-GPU	2	1	1	1	1	1
HMI & Multi- media	Display Resolution and Interfaces: MIPI-DSI / Parallel / HDMI	4K + 1080 2 / 1 / 1	4K + 1080 1 / 0 / 1	1080 1 / 0 / 0	1080 1 / 0 / 0	1080 1 / 1 / 1	2x 1080 2 / 1 / 0
	Camera Interfaces: MIPI-CSI / Parallel / HDMI	2 / 2 / 1	2 / 0 / 0	1 / 0 / 0	1 / 0 / 0	2 / 0 / 0	1 / 1 / 0
	Video Decode Resolution (Top Codecs)	4K (h.265, h.264)	4Kp60 with High Dynamic Range (h.265, VP9); 4Kp30 (h.264, VP8) 1080p60 (h.265, VP9, h.264, VP8)	1080p60 (h.265, h.264, VP8, VP9)	-	1080p60 (h.265, h.264, VP9, VP8)	4K (h.265); 1080p60 (h.264, VP8)
	Video Encode Resolution (Top Codecs)	1080p30 (h.264)	1080p30 (h.264) – SW	1080p60 (h.264, VP8)	-	1080p60 (h.265, h.264)	1080p30 (h.264)
Inter- faces	PCIe	2	2	1	-	1	1
	Gigabit Ethernet	2x	1x	1x	1x	2x (1x TSN)	2x
CPU Power	CPU Power	5–12 W	1–4 W	1–4 W	1–4 W	2–6 W	1,5–6 W