



Comparisons between VIM3(L), Jetson Nano and Rpi4

Model	VIM3 Basic	VIM3L	Jetson Nano	Raspberry Pi 4 (2GB)
SoC Process	12nm	12nm	unknown	28nm
CPU	Amlogic A311D x4 A73 at 2.2GHz + x2 A53 at 1.8GHz	Amlogic S905D3-N0N x4 A55 at 1.9GHz	NVIDIA x4 A57 at 1.43GHz	Broadcom BCM2711 x4 A72 at 1.5GHz
GPU	ARM Mali G52 MP4 at 800MHz	ARM Mali G31 MP2 at 800MHz	NVIDIA Maxwell 128-core at 921MHz (0.5 TFLOPS at 16FP)	VideoCore VI at 500MHz
NPU	5.0 TOPS	1.2 TOPS	-	-
HDMI eARC	-	✓	-	-
MIPI-CSI Camera	4-lane Built-in 8MP HDR ISP	2-lane without integrated ISP	4-lane	2-lane
MIPI-DSI Display	4-lane		-	2-lane
RAM	2GB, 32bit		4GB, 64bit	2GB, 32bit
eMMC	16GB		-	-
SPI Flash	16MB		512KB	512KB (EEPROM)
Wi-Fi	2T2R 802.11 ac with RSDB		-	1T1R 802.11 ac
Bluetooth	V5.0		-	V5.0
Wake-on-Lan	✓		-	-
IR Receiver	✓		-	-
Motion Tracking	Tri-axis Accelerometer		-	-
Onboard MCU	STM8S003		-	-
User Buttons	Power, Reset, Function		-	-
Power Supply	USB-C, VIN		Micro USB, DC Jack	USB-C
Voltage Range	5~20V		5V	5V
Decoding	Multi-video decoder up to 4Kx2K@60fps + 1x1080P@60fps		H.265 4K 60fps	H.265 4K 60fps
Encoding	H.265/H.264 1080P@60fps		H.265 4K@30fps	H.264 1080P@30fps