

Feature	AM335x	AM62x
Number of CPU Cores	Single Cortex A8	Single, Dual, Quad Cortex A53
Clock rate	Up to 1 GHz	Up to 1,4 GHz
DMIPS	Up to 2K DMIPS	Up to 16,8K DMIPS
SDRAM	DDR3/ DDR3L	DDR4/ LPDDR4L
GPU	SGX530@200 MHz (1,6 GFLOPS)	AXE1-16M@500M Hz (8 GFLOPS)
Number of Display	Single Display, RGB 1080P30	Dual Display DPI+ LVDS, 2k (1080P60)
Security feature	Yes	Yes
Additional Cores	-	1x M4F (security functions)
Number of Ethernet ports	Up to 2x Eth	Up to 2x Gbit Eth switch (TSN capable)
Real-time Eth (PRU based)	Supported (Eth 10/100)	Not supported
Number of CAN	Up to 2x CAN	Up to 3x CAN -FD
Number of USB2.0	Up to 1x	Up to 2x
Number of UART	Up to 6x	Up to 9x
Number of I²C	Up to 3x	Up to 6x
Number of Q/OSPI	-	Up to 1x
Number of SPI	Up to 2x	Up to 3x
Number of ADC 12bit	Up to 1x	Up to 1x
Number of MIPI – CSI	-	Up to 1x
Number of McASP	Up to 2x	Up to 3x