

Freescale Multimedia Processors



i.MX53

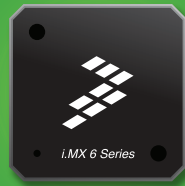
Single ARM Cortex-A8 at 1GHz

256kB L2 Cache, Neon, VFP, Trustzone

3D Graphics with one shader

2D Graphics

32-bit DDR3 and LPDDR2 at 400MHz



i.MX6 Solo

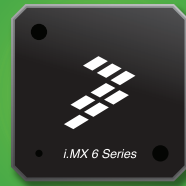
Single ARM **Cortex-A9** at 1GHz

512kB L2 Cache, Neon, VFP, Trustzone

3D Graphics with one shader

2D Graphics

32-bit DDR3 and LPDDR2 at 400MHz



i.MX6 DualLite

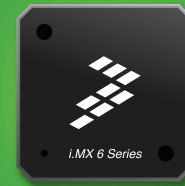
Dual ARM Cortex-A9 at 1GHz

512kB L2 Cache, Neon, VFP, Trustzone

3D Graphics with one shader

2D Graphics

64-bit DDR3 and 32-bit LPDDR2 at 400MHz



i.MX6 Dual

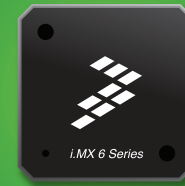
Dual ARM Cortex-A9 at 1GHz

1MB L2 Cache, Neon, VFP, Trustzone

3D Graphics with **four** shaders

2x 2D Graphics

64-bit DDR3 and 32-bit LPDDR2 at **533MHz**



i.MX6 Quad

Quad ARM Cortex-A9 at 1GHz

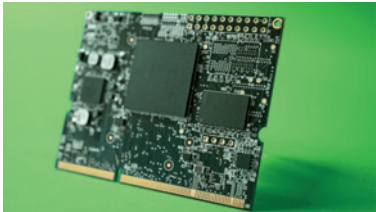
1MB L2 Cache, Neon, VFP, Trustzone

3D Graphics with four shaders

2x 2D Graphics

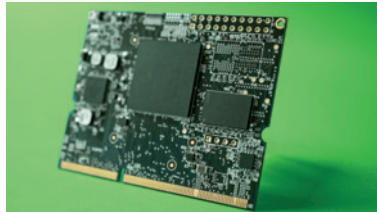
64-bit DDR3 and 32-bit LPDDR2 at 533MHz

Turing i.MX System on Modules



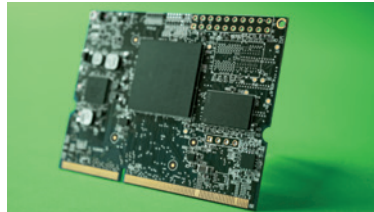
TC-IMX53

Up to 1GB DDR3
4GB eMMC
28x GPIO
USB Host + PHY
USB OTG + PHY
3x I2C
2x SDIO v2.1
2x I2S
4x UART
1x SPI
1x LVDS 18bpp
1x RGB-24
1x 8-bit CSI
2x PWM
Resistive Touch



TC-IMX6S

512MB DDR3
4GB eMMC
28x GPIO
USB Host + PHY
USB OTG + PHY
3x I2C
2x SDIO **v3.0**
2x I2S
1x SPDIF
4x UART
2x SPI
2x CAN
1x LVDS 24bpp
1x RGB-24
1x 8-bit CSI
1x MIPI
2x PWM
Resistive Touch
PCI-e v2.0



TC-IMX6U

Up to 1GB DDR3
4GB eMMC
28x GPIO
USB Host + PHY
USB OTG + PHY
3x I2C
2x SDIO v3.0
2x I2S
1x SPDIF
4x UART
2x SPI
2x CAN
1x LVDS
1x RGB-24
1x 8-bit CSI
1x MIPI
2x PWM
Resistive Touch
PCI-e v2.0



TC-IMX6D

1GB DDR3
8GB eMMC
28x GPIO
USB Host + PHY
USB OTG + PHY
3x I2C
2x SDIO v3.0
2x I2S
1x SPDIF
4x UART
2x SPI
2x CAN
1x LVDS
1x RGB-24
1x 8-bit CSI
1x MIPI
2x PWM
Resistive Touch
PCI-e v2
SATA-II



TC-IMX6Q

Up to 2GB DDR3
8GB eMMC
28x GPIO
USB Host + PHY
USB OTG + PHY
3x I2C
2x SDIO v3.0
2x I2S
1x SPDIF
4x UART
2x SPI
2x CAN
1x LVDS
1x RGB-24
1x 8-bit CSI
1x MIPI
2x PWM
Resistive Touch
PCI-e v2.0
SATA-II