

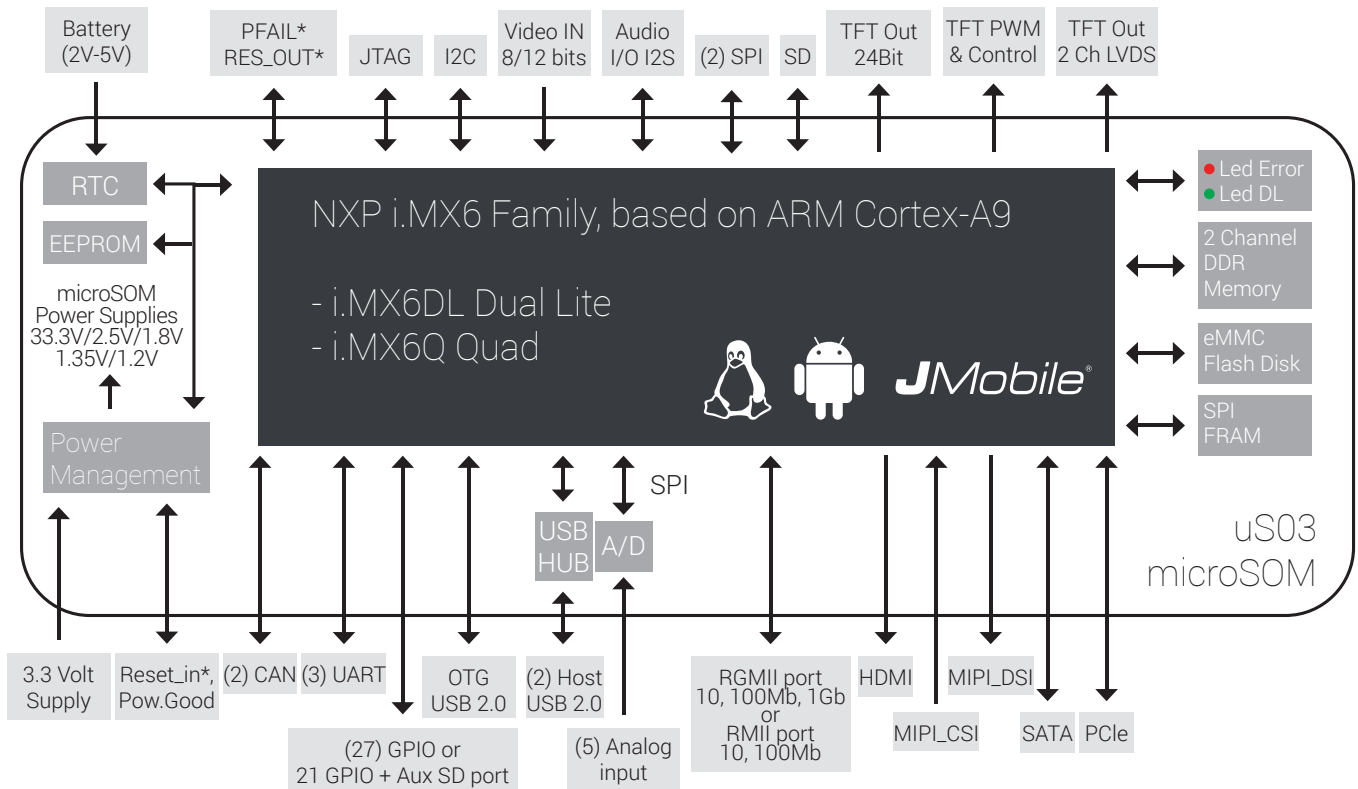
microSOM uS03 - Technical Data



uS03 is highly innovative, high performance i.MX 6 Quad/ Dual/DualLite/Solo core ARM Cortex-A9 of microSOM family. The uS03 microSOM solution ideal for applications requiring multimedia capabilities and/or high levels of parallel computing.

Dimensions	46x35 mm
Temperature Range	-40°C to +85°C
CPU	i.MX6S Solo up to 800 MHz, i.MX6DL DualLite up to 800 MHz, iMXD Dual up to 800 MHz, i.MX6Q Quad up to 800 MHz
DDR	Up to 2 GBytes high performance LVDDRAM2 Dual Channel mode (2x32 bit)
Flash Disk	Up to 8 Gbytes eMMC
EEPROM	4 Kbits
FRAM	64-Kbytes (optional)
Watchdog/RTC/Voltage monitor/JTAG	Yes
USB	2 (Host V2.0), 1 (OTG)
Ethernet	1 (RMII 10/100 Mb) or 1 (RGMII 10/100/1000 Mb)
SD	2
Serial Port	3
SPI	2
I2C	1
CAN	2
Audio	1 (I2S Channel)
Video OUT	1 (Video Out Controller 24 Bit), 1 (Video Out LVDS Dual Ch. or 2 Single Channel), 1 (HDMI 1.4), 1 (MIPI DSI)
Video IN	1 (Camera int. MIPI CSI), 1 (Camera parallel input up to 12 bits)
Analog Input	5
GPIO	27
PCIe	GEN1 (2.5 Gbps)

Software configurable. Not all selections can be combined



Ordering Information

Model	Part Number	Description
uS03-0001	+US03-0001	i.MX6 DualLite 800Mhz - 1GB DDR - 4GB Flash Disk - Operating Temp. -40 to +85°C
uS03-0002	+US03-0002	i.MX6 Quad 800Mhz - 2GB DDR - 8GB Flash Disk - Operating Temp. -40 to +85°C
uS03 Kit	+EE16EK-0001	microSOM uS03 Development Kit