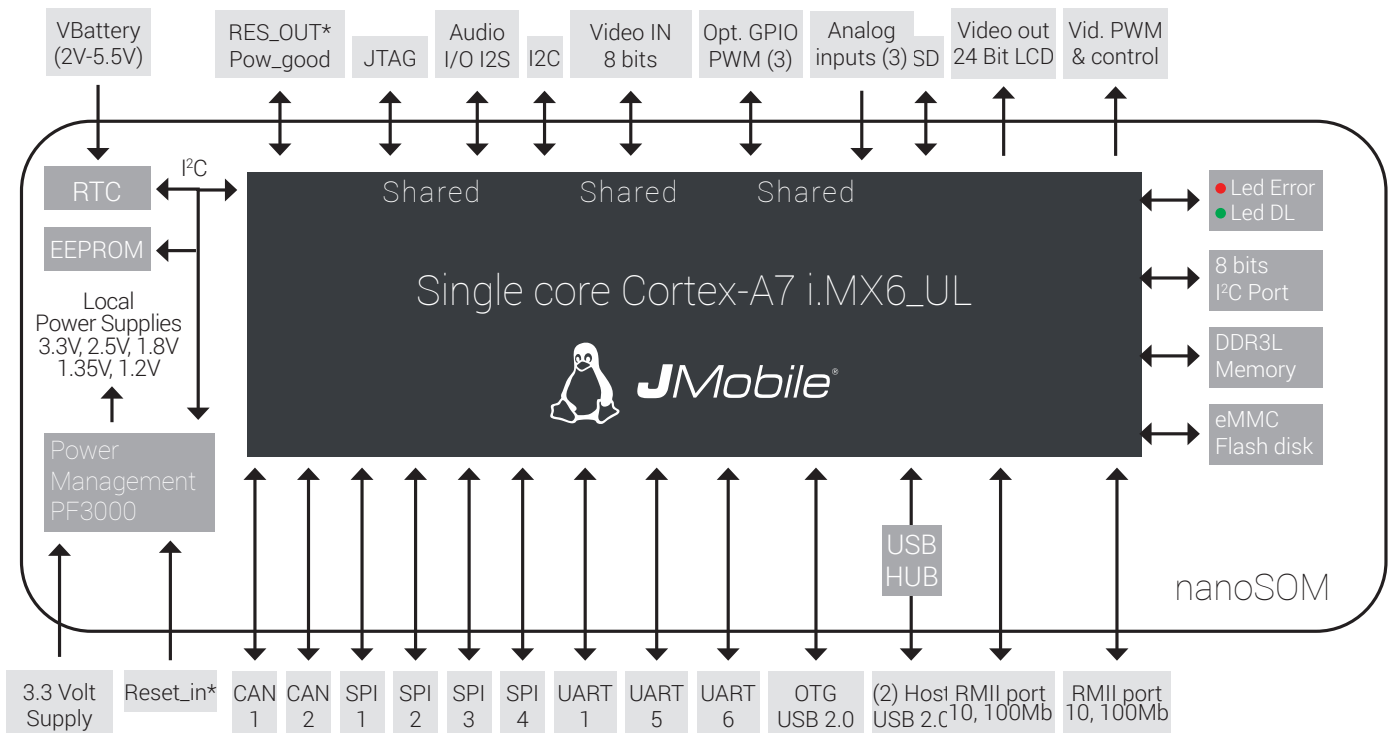


nanoSOM nS01 - Technical Data



NanoSOM nS01 is highly innovative, high performance very efficient, ultra compact and cost-effective SOM based i.MX 6 UltraLite CPU ARM Cortex-A7 core.

Dimensions	25,4x25,4 mm
Temperature Range	Commercial 0 to +70°C / Industrial -40 to +85°C
CPU	NXP i.MX6 UltraLite 528 Mhz - ARM Cortex-A7 MPCore with TrustZone and NEON Media Processor unit.
DDR	Up to 1 GByte high performance DDR3L
Flash Disk	Up to 32 GByte eMMC Flash
EEPROM	512 Bytes x 8
RTC	Yes, Battery or SuperCAP backup
Watchdog/RTC/Voltage monitor/JTAG	Yes
USB	2 (Host V2.0), 1 (OTG)
Ethernet	2 (RMII ports 10/100Mb MAC IEEE1588)
SD	1 (via External connectors)
SPI	4
I2C	1
CAN	2
UARTs	3
Audio	1 (I2S Channel)
Video	24 bits RGB LCD parallel / Optional Video Input Port 8 bits (shared with some peripherals)
Analog Input / GPIO	3 Analog Inputs and several programming GPIO signals with interrupt capability (2 PWM). Reserved Pins for Power-Fail, Power Good, Reset IN, Reset Out functions.
Security	Optional Advanced Security functions ARM TrustZone with optional 10 Tamper pads
Power Supply	Single 3,3 Volt / VBB for RTC Backup



Ordering Information

Model	Part Number	Description
nS01-0001	+NS01-0001	i.MX6 UltraLite 528Mhz - 256MB DDR3L - 4GB Flash Disk - Operating Temp. 0 to +70°C
nS01-0002	+NS01-0002	i.MX6 UltraLite 528Mhz - 512MB DDR3L - 4GB Flash Disk - Operating Temp. -40 to +85°C
nS01-0003	+NS01-0003	i.MX6 UltraLite 528Mhz - 512MB DDR3L - 4GB Flash Disk - Operating Temp. -40 to +85°C - Adv.Security
nS01-0004	+NS01-0004	i.MX6 UltraLite 528Mhz - 1GB DDR3L - 8GB Flash Disk - Operating Temp. -40 to +85°C
nS01 Dev. Kit	+EE16EK-0005	nanoSOM nS01 Development Kit
OpenHMI nS01 Dev. Kit	+EE16EK-0007	5" OpenHMI nS01 Development Kit

Optionally available with different configurations, with different CPU part number, memory sizes and Operating Temperature grades.