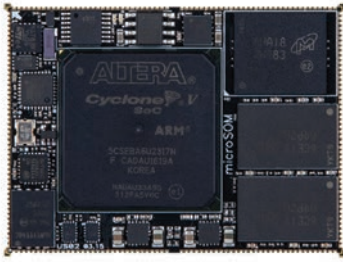


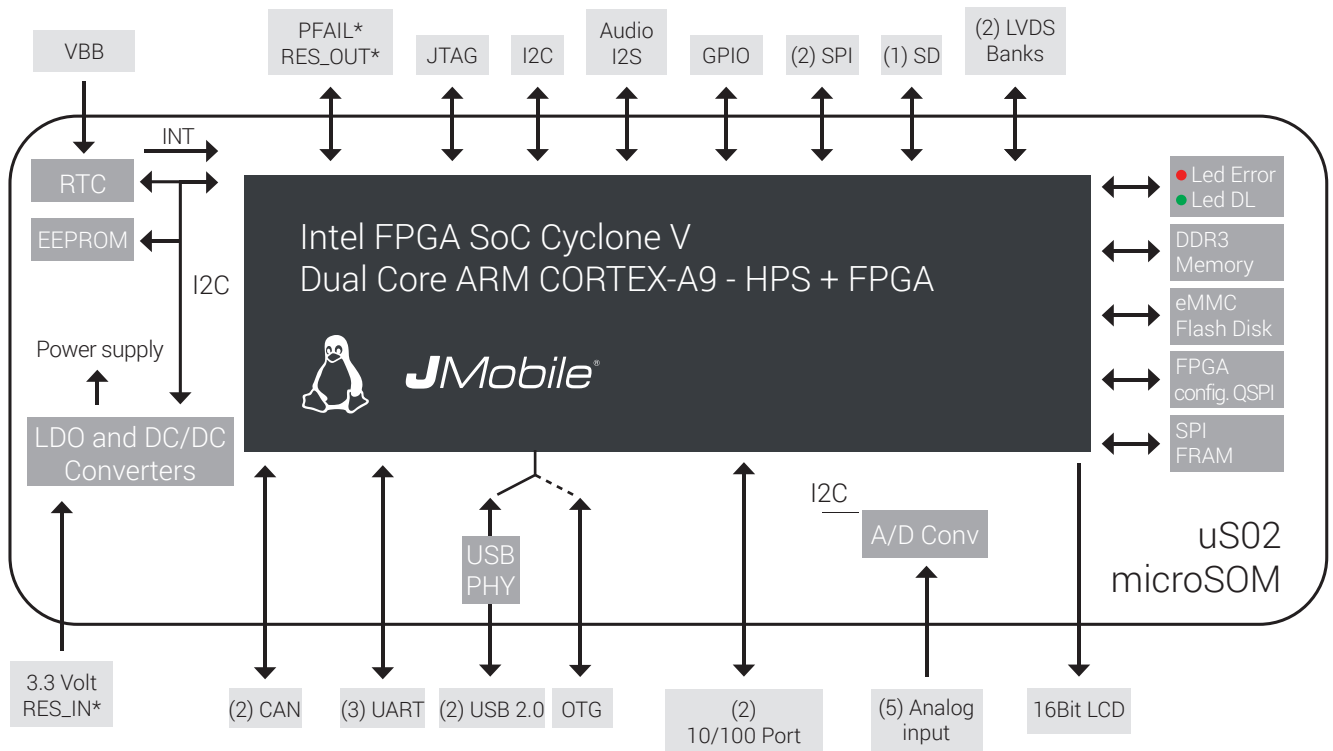
microSOM uS02 - Technical Data



microSOM uS02 Intel Cyclone V SE SoC based new microSOM standard for the increased system performance requirements.

Dimensions	46x35 mm
Temperature Range	-40°C to +85°C
CPU	Intel 5CSEBA2 (A6) Dual ARM Cortex - A9 925 MHz
Integrated with FPGA up to 110K LEs	25/110 KLE
DDR	1 Gbyte DDR3
Flash Disk	Up to 4 Gbytes eMMC (The actual size could vary according to the device's vendor. 2MB min. of boot sectors.)
QSPI	Up to 256 Mbits
EEPROM	4 Kbits
FRAM	64 Kbytes
Watchdog/RTC/Voltage monitor/JTAG	Yes
USB	2 (Host V2.0) or 1 (OTG)
Ethernet	2 (RMII ports 10/100 Mb)
SD	1
Serial Port	3
SPI	2
I2C	1
CAN	2
Audio	1 (I2S Channel)
Video	(1) Video Out Controller 16 Bit - Video Input: Digital Interface ITU656
Analog Input	5
GPIO	Several GPIO available depending of FPGA configuration, 2 LVDS I/O with 5 lanes each

Software configurable. Not all selections can be combined



Ordering Information

Model	Part Number	Description
uS02-0001	+US02-0001	Cyclone V SoC - 110 KLE - 1GB DDR3 - 4 GB Flash Disk - Operating Temp. -40 to +85°C
uS02-0002	+US02-0002	Cyclone V SoC - 25 KLE - 1GB DDR3 - 4 GB Flash Disk - Operating Temp. -40 to +85°C
uS02 Dev. Kit	+AL15EK-0001	microSOM uS02 Development Kit