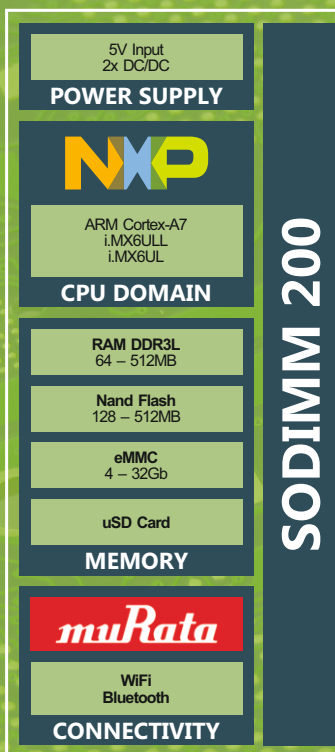




- ✓ Powered by NXP i.MX6ULL/UL processor
- ✓ Built-in Murata WiFi/Bluetooth
- ✓ Popular SODIMM200 Footprint
- ✓ Industrial Temperature Range

ARM Cortex-A7 based Industrial SOM

VisionSOM-6ULL/UL



MAIN FEATURES

NXP i.MX6ULL, i.MX6UL

- ARM Cortex-A7
- Clock up to 900 MHz
- 128 KB L2 cache

MURATA LBEE5KL1D

- WiFi IEEE 802.11b/g/n
- Bluetooth Version 4.1 + EDR

MEMORY

- DDR3L 64-512MB
- Various flash configuration (NAND, eMMC, uSD Card)

SOM FOOTPRINT

- SODIMM 200

LCD DISPLAY SUPPORT

- 24 bits parallel RGB LCD display up to WXGA (1366x768)
- Resistive touch screen controller (4wire/5wire)

OS SUPPORT

- Linux BSP (Debian)

INTERFACES

- 10/100Mbps Ethernet x2 with IEEE1588
- USB OTG x2
- FlexCan (up to 2)
- UART (up to 8)
- I2C (up to 4)
- SPI (up to 4)
- ESAI x1

ANALOG

- 12 bits/10 channels ADC x2

CAMERA INPUT

- up to 24-bit parallel CSI

IMAGE PROCESSING

- PXB v2.0
- CSC, Resize, Combine, Rotate

OTHERS

- Industrial temperature range
- On board U.FL antenna connector
- Optimized power consumption

VisionSOM-6ULL is comprised of a small processor module with CPU bus accessibility and standard I/O functionality and is an ideal solution for real time projects.

VisionSOM-6ULL module can often trim 8-12 months from design cycle and can be easily adapted to existing projects or can be used together with a dedicated carrier board. Customers who are looking for a

complete solution can use a set comprised of System on Module (SoM) and Carrier Board (CB).

VisionSOM-6ULL module requires a matching customer's board or a carrier board to establish a complete system. Carrier Board together with System on Module (SoM) is ready to use computer on board and is giving enormous flexibility in building projects.

SOM

System on Module

VisionSOM-6ULL

VisionSOM-6ULL

Hardware and Software Compatible

MPU architecture	ARM Cortex-A7	ARM Cortex-A7
Maximum clock	900 MHz	696 MHz
Number of Cores	x1	x1
RAM	64MB – 512MB	64MB – 512MB
eMMC	4GB – 32GB	4GB – 32GB
NAND	128MB – 512MB	128MB – 512MB
uSD Card Slot	YES optionally	YES optionally
WiFi & Bluetooth	YES	YES
Antenna connector	U.FL	U.FL
Temperature	–40 to +85°C (WiFi –30 to +70°C)	–40 to +85°C (WiFi –30 to +70°C)
Supported OS	Linux	Linux
Carrier Board	VisionCB-6ULL-STD, VisionCB-6ULL-IND	VisionCB-6ULL-STD, VisionCB-6ULL-IND

Altium Designer's library file is available for all SOM variants (SCH and PCB)

CB

Carrier Board

VisionCB-6ULL-STD

VisionCB-6ULL-IND

Power Supply	9-12VDC or 5VDC	9-12VDC or 5VDC
Ethernet 10/100Mbps	x1	x1
USB OTG	x2	x2
Display Interface	RGB (50 pin FPC)	-
Arduino Socket	+	-
Reset button	+	-
Raspberry Pi connector	+	-
USB Linux console	+	-
RTC Battery backup	-	+
SoM Interface	SODIMM200	SODIMM200
Board Size	130mmx90mmx17mm	98mmx79mmx22mm

DT

Development Tools

VisionSTK-6ULL

Starter Kit

VisionDK-6ULL

Development Kit

Included SOM	VisionSOM-6ULL SLS16Y2_792C_512R_04GE_0SF_I	VisionSOM-6ULL SLS16Y2_792C_512R_04GE_1WB_C
Carrier Board	VisionCB-6ULL-STD	VisionCB-6ULL-STD
7inch LCD display	-	+
USB Debug Cable	-	+
Ethernet Cable	-	+
12V Power Supply	-	+
WiFi-Bluetooth Antenna	-	+