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VisionSOM-6ULL Datasheet and Pinout

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VisionSOM-6ULL Datasheet and Pinout

General description



The VisionSOM-6ULL family is a SODIMM-sized SoM based on the NXP i.MX6 ULL application processor which features an advanced implementation of a single ARM Cortex-A7 core (at speeds up to 900MHz).

The VisionSOM-6ULL is a low power highly integrated SoM (System on Module) featuring high computation power and 802.11b/g/n Wi-Fi and Bluetooth v5.1 connectivity. The option of integrated, fully certified Wi-Fi and Bluetooth module simplifies the carrier board design and is ideally suited for wireless application. The VisionSOM-6ULL provides a variety memory configuration including flexible range of DDR3L, NAND, eMMC and SD memory card that meets our customers requirements.

The SoM supports connections to a variety of interfaces: two high-speed USB on-the-go with PHY, dual Ethernet, audio, display with touch panel and serial interfaces. In addition, the system supports industrial grade targeting embedded application.

SoMLabs also provides a complete hardware and software development board for the SoM in the form of a carrier board and optional TFT display and touch panel.

Applications

- Industrial embedded Linux computer
- Home Appliances
- Home Automation - Smart Home
- Human-machine Interfaces (HMI)
- Point-of-sales (POS) terminals

- Cash Register
- 2D barcode scanners and printers
- Smart grid infrastructure
- IoT gateways
- Residential gateways
- Machine vision equipment
- Robotics
- Fitness/outdoor equipment

Features

- Powered by NXP i.MX 6ULL application processor
- Core clock up to 900MHz
- Up to 512MB SDRAM DDR3L
- Up to 512MB NAND Flash / 32GB eMMC / uSD memory card
- Optional Murata 802.11b/g/n Wi-Fi and Bluetooth v5.2 module
- Power-efficient and cost-optimized solution
- Ideal for industrial IoT and embedded applications
- Integrated security features

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