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# VisionCB-6ULL-STD Datasheet and Pinout

Rev. 20200709131021

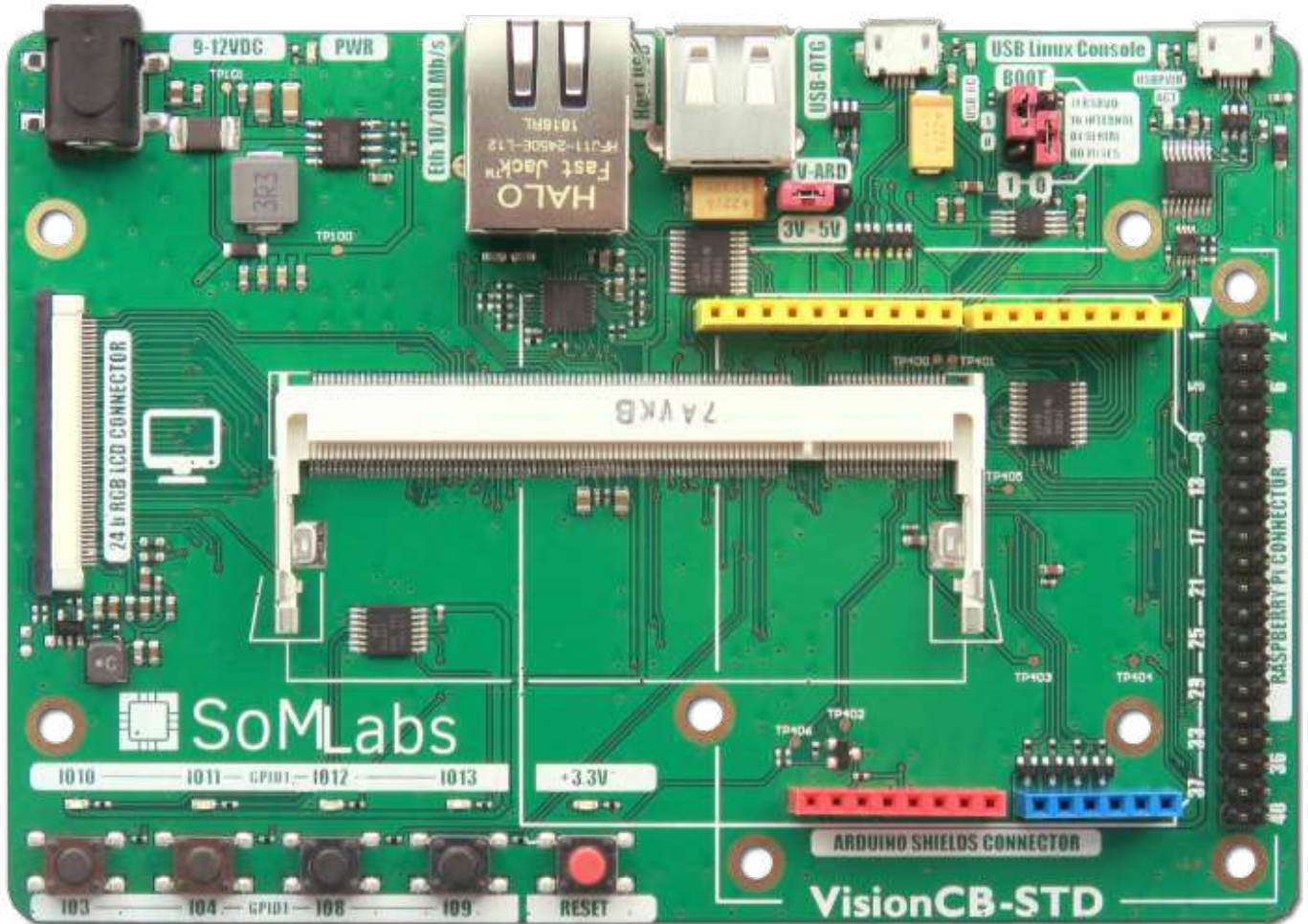
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# VisionCB-6ULL-STD v.2.0 Datasheet and Pinout

## General description



VisionCB-6ULL-STD v2.0 is a carrier board for the VisionSOM family of computer-on-modules which are powered by NXP i.MX 6UL or i.MX 6ULL application processors (ARM Cortex-A7). A carrier board, together with a System on Module (SoM), makes a complete development platform similar to SBC. The carrier board houses the most common interfaces such as USB, Ethernet, UART, etc. A large variety of interfaces allows to use it as both a complete development platform or as a stand-alone end-product.

The carrier board connects with the SoM via a standard SODIMM connector.

## 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

- Carrier Board (Base Board) compatible with the VisionSOM family of modules based on NXP i.MX 6UL / 6ULL application processors
- Core clock up to 696MHz (VisionSOM-6UL) or up to 900MHz (VisionSOM-6ULL)
- Up to 512MB SDRAM DDR3L (depends on used VisionSOM module)
- Up to 512MB NAND Flash / 32GB eMMC / uSD memory card (depends on used VisionSOM module)
- Optional Murata 802.11b/g/n Wi-Fi and Bluetooth v4.1+EDR module
- SoM Interface: SODIMM200
- Expansion Connectors:
  - Arduino Uno Rev. 3 1x8, 1x6, 1x8, 1x10 Pin Headers (Female)
  - Raspberry Pi compatible connectors 2x20 Pin Header (Male)
- Communication Connectors:
  - 1x Ethernet 10/100Mbit/s, RJ45
  - 1x USB Host Type A connectors
  - 1x USB OTG Micro AB connector
  - 1x Console MicroUSB B connector (via FTDI FT230 UART to USB converter)
- Display Interface: 50-pin FFC/FPC Parallel RGB - 24-bit, (1366 x 768 Max. Resolution)
- User Interface:
  - 5 Pushbuttons
  - 5 LEDs
- Boot selector
- Power Supply
  - DC connector: Input Voltage 9-12V DC
  - MicroUSB connector: Input Voltage 5V DC
- Temperature Range: 0 to +70°C
- Board Size: 130mm x 90mm x 17mm

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