

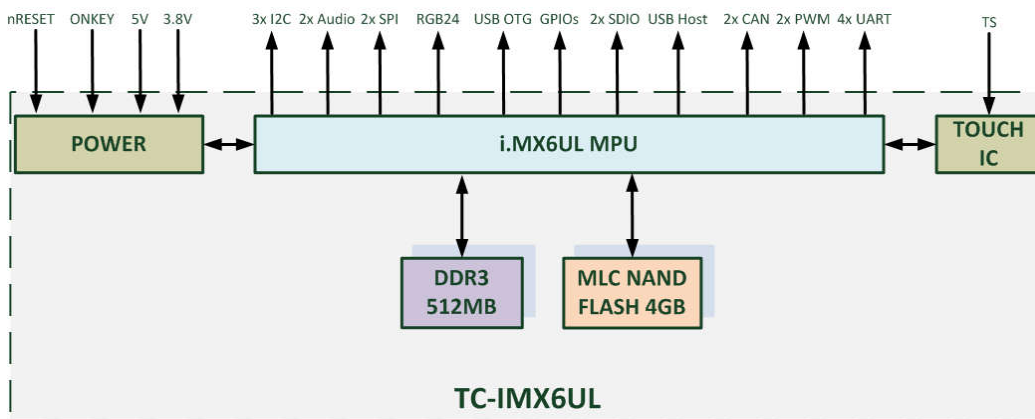
## 1 FEATURES

- i.MX6 Ultra Lite Microprocessor
- 4GB MLC NAND
- 512MB DDR3
- 204-pin SODIMM footprint
- Resistive Touch Interface
- 3x I<sup>2</sup>C
- 4x UART
- 2x SDIO
- 1x USB OTG
- 1x USB Host
- 1x RGB-24
- 2x PWM
- 2x SPI
- 2x CAN
- 2x Audio Interfaces (I<sup>2</sup>S, SPDIF)
- 23x General Purpose I/Os
- Linux compatible

## 2 APPLICATIONS

- Points of Sales
- Data Terminals
- IoT Gateways
- Test Fixtures
- Instrumentation and Data Processing

## 4 BLOCK DIAGRAM



- Telematics
- Human-Machine Interfaces

## 3 DESCRIPTION

The TC-IMX6 Ultra Lite series of system on modules from Turing Computer delivers high computation performance while providing several interfaces for external peripherals, such as Inter-Integrated Circuit (I<sup>2</sup>C), Serial-Peripheral Interface (SPI), Universal Serial Bus (USB) interfaces, UARTs, CAN bus and several General Purpose I/Os.

4GB NAND Flash storage and 512MB DDR3 RAM running at 400MHz make it possible to store and process large amounts of data and display a rich user interface using the RGB-24 port up to WXGA (1366x768) resolution with integrated 4-wire Resistive Touch sensor.

There are also two SDIO buses available for mass storage cards or to connect several Wifi and Bluetooth modules, making the TC-IMX6G and TC-IMX6Y modules the best options for connected IoT devices and Gateways.

These modules also features the same 204-SODIMM interface connector, being compatible to all modules from our families. Users can easily upgrade or downgrade processor's capabilities and system memory without redesigning their carrier boards.