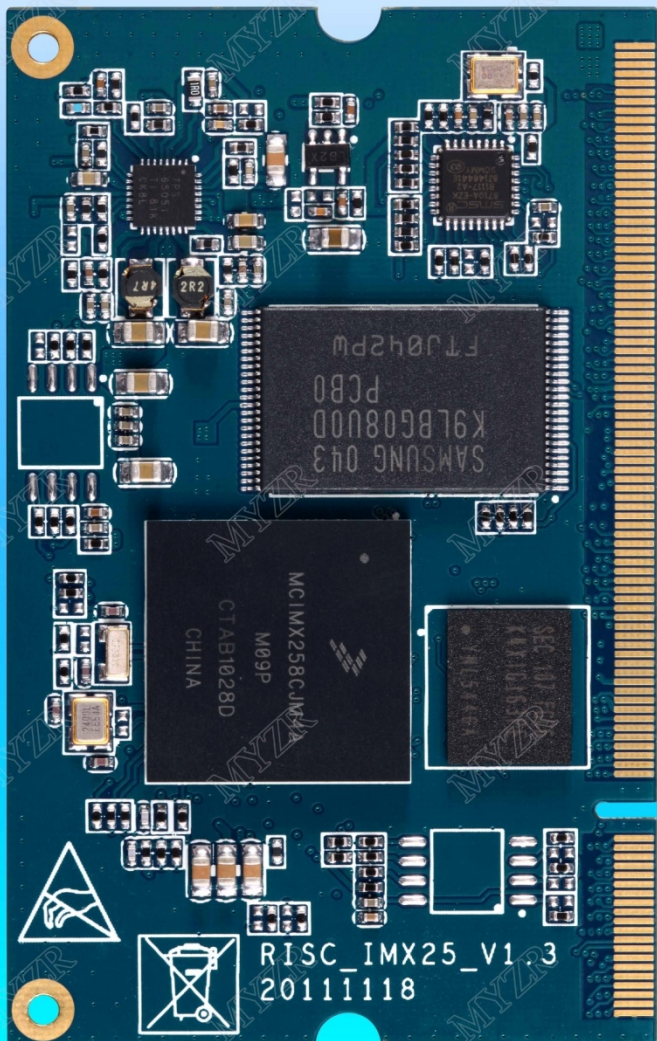# MY-i.MX25

Computer On Module
• Processor i.MX25, 400 MHz
• RAM 64/128 MB mDDR
• ROM up to 2 GB NAND Flash
• Power supply Single 3.0V to 5.5V
• Size 42.2mm SO-DIMM200
• Temp.-Range -40°C..85°C

Key Features
• 10/100Mbps Ethernet
• High-Speed USB 2.0 OTG
• Full-Speed USB 2.0 Host
• LCD controller
• Still-picture camera interface
• Several peripheral interfaces:
UART, SD-CARD, I2C, PWM, 1-wire,
Keypad, Digital Audio (AC97/I2S),
Configurable serial peripheral
interface,
4 wire Touchscreen, CAN

OS Support
• Windows Embedded CE 6.0
• Linux 2.6.35

Application：POS, handheld terminals, building security, anti-theft devices for e-commerce, smart meters and access control

MY-i.MX25

Board highlights:
• Lowest cost 400MHz ARM9
• Industrial temperature range
• Standard MY-DIMM200 pinout
• as small as possible - only 42.2mm
The MY-i.MX25 is a member of a module series, specially designed for Freescales i.MX25 multimedia processors. MY modules are complete computers, implemented on a board smaller than a credit card, and ready to be designed into your embedded system. MY modules includes a Freescale® i.MX processor, SDRAM and Flash memory. The integrated LCD-controller enables direct connection of an LCD screen. The MY-i.MX25 is specifically targeted at embedded applications where size, high cpu-performance and cost are critical factors.

Standard MY-DIMM200 pinout:
• 4-wire UARTs (x3)
• LCD
• CSI (CMOS Sensor Interface)
• I2C / 1-wire / PWM
• SSI/AC97/I2S (x2)

• 4-wire SD-Card/SDIO
• Keypad 4x4
• CSPI (Configurable serial peripheral interface)
High-Speed communication interfaces incl. onboard Ethernet PHY / on-chip USB PHY allows direct use of connectors/magnetics on the baseboard without the need for additional logic:
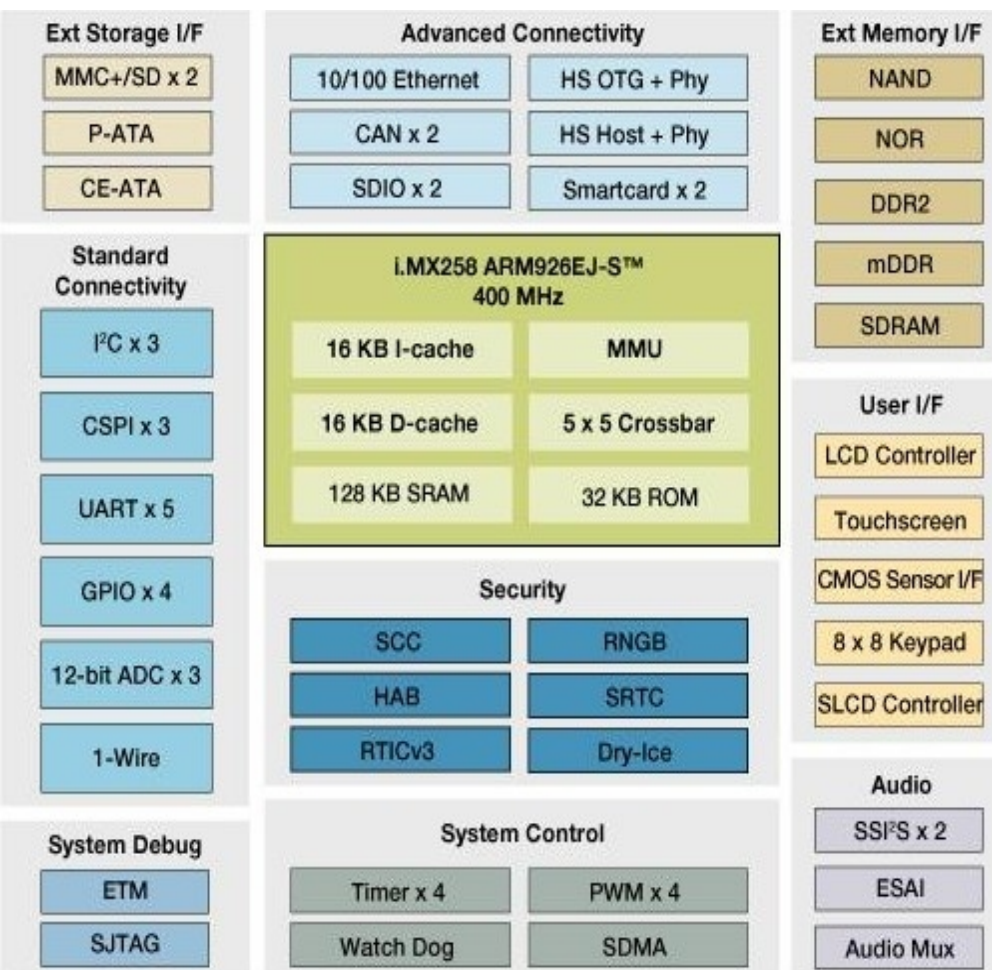• 10/100 Mbps Ethernet
• 480 Mbps USB OTG
• 12 Mbps USB Host
Additional interfaces like CAN, 4/5-wire resistive touch-screen, 2 UARTs and external memory interface are available on MY-i.MX25 specific pins. Some interfaces are multiplexed with other functions.

Power Supply
The MY-i.MX25 accepts an input voltage from various sources:
• 1-cell Li-Ion/Polymer (3.0V to 4.2V)
• 5.0V USB supply or AC wall adapter
• 3.3V

Processor
The i.MX25 processor introduces several key new features such as 3.3V I/O support, three general-purpose 12-bit ADCs, a touch screen controller and integrated 128K SRAM to improve system performance or low-power LCD refresh.