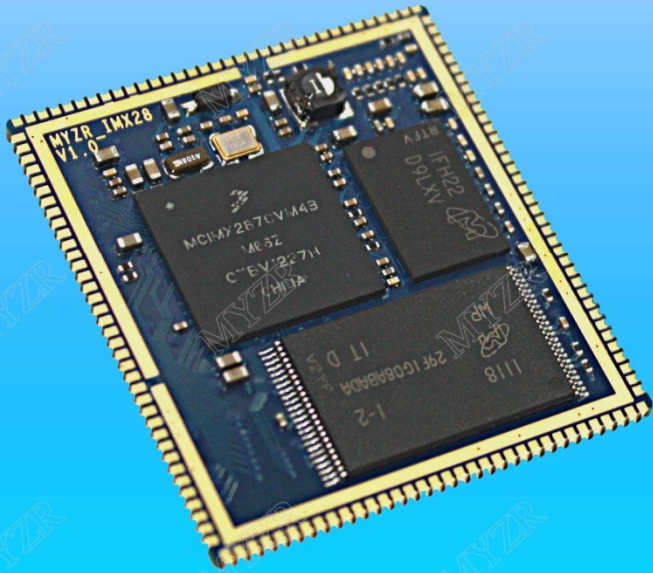


MY-i.MX28



Computer On Module

- Processor Freescale i.MX287, 454 MHz
- RAM 128MB DDR2-400 SDRAM
- ROM 128MB NAND Flash
- Power supply Single 3.1V to 5.5V
- Size 40mmX35mm
- Temp.-Range -40° C..85° C

Key Features

- Two 10/100Mbps Ethernet ports with IEEE1588 support
- Two High-Speed USB 2.0 ports
- One colour LCD controller
- Two CAN interfaces
- 4 wire Touchscreen interface
- Several peripheral interfaces: UART, SD-CARD, I2C, PWM, Serial Audio, SPI
- Power management optimized for long battery life
- 3.3V I/O

OS Support

- Windows Embedded CE 6.0
- Linux 2.6.35

Application: Building control, factory automation, printers and security panels, HMI, industrial control media gateways / accessories, portable medical devices, energy-saving Energy Gateway / Meter

MY-i.MX28



M Y Z R

Board highlights:

- Lowest cost 454MHz ARM9
- Industrial temperature range
- Stamp Hole pinout
- as small as possible - only 40mmX35mm

The MY-i.MX28 is a member of a module series, specially designed for Freescales® i.MX 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.MX28 is specifically targeted at embedded applications where size, high cpu-performance and cost are critical factors.

Stamp Hole pinout:

- 4-wire UARTs (x3)
- LCD

Processor

The i.MX28 family of multimedia applications processors is the latest extension of Freescales® ARM9 product portfolio. The i.MX28 family integrates display, power management, and connectivity features unmatched in ARM9-based devices, reducing system cost and complexity for cost sensitive applications. And easy-to-use tools and software help you design differentiated industrial and consumer products in less time. With optimized performance and power consumption, the i.MX28 is an ideal fit for fanless systems or for portable equipment that need to be battery operated. Numerous connectivity options including dual 10/100 Ethernet (IEEE 1588 capable) with L2 switch address specific needs for industrial applications. Additionally, the LCD controller with touch screen capability makes it possible to design creative and intuitive user interfaces that are required by many applications.

The i.MX28 family of multimedia applications processors integrates display, power management, CAN, USB, and Ethernet connectivity. The combination of advanced connectivity peripherals with a 454Mhz ARM9 processor core creates a platform for gateway products that bridge multiple networks. With attention to overall system cost,

- I2C / PWM
- Serial Audio Interfaces (x1)
- 4-wire SD-Card/SDIO

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:

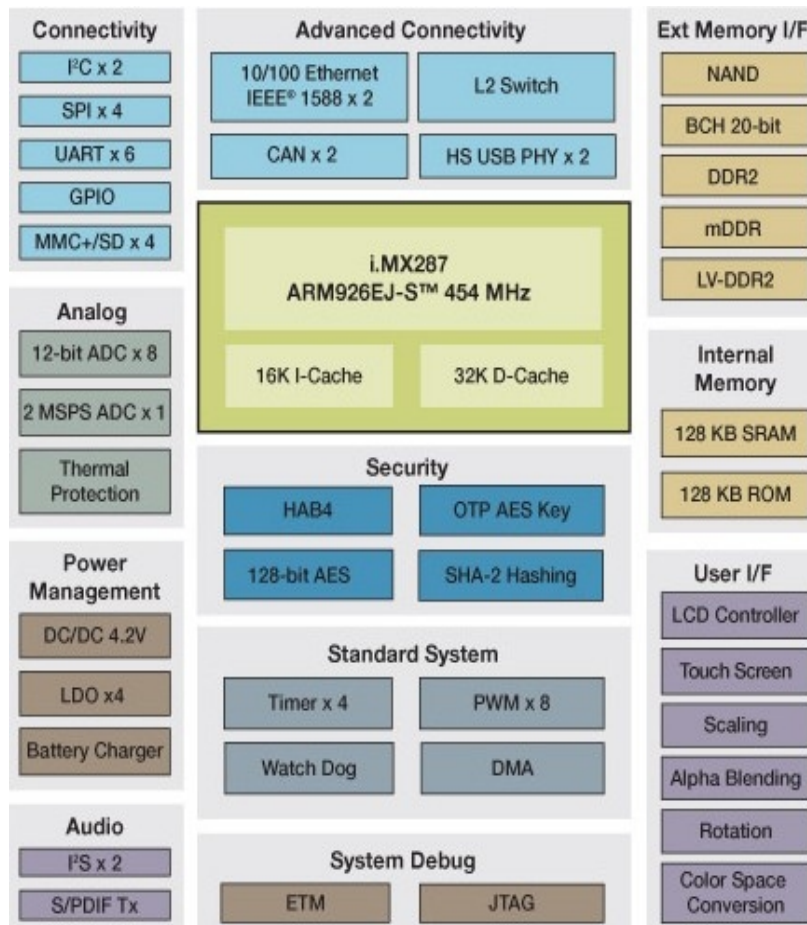
- 10/100 Mbps Ethernet (x2)
- 480 Mbps USB OTG
- 480 Mbps USB Host

Additional interfaces like CAN, 4-wire resistive touch-screen, 2 UARTs and external memory interface are available on MY-i.MX28 specific pins. Some interfaces are multiplexed with other functions.

Power Supply

The MY-i.MX28 accepts an input voltage from various sources:

- 1-cell Li-Ion/Polymer (3.1V to 4.2V)
- 5.0V USB supply or AC wall adapter
- 3.3V



i.MX28 integrates physical USB interfaces (PHY), 10/100 Ethernet, power management, and a resistive touch screen display controller.