

# LTMX28

## Low Cost SOM for Industrial Applications



The LTMX28 is an **industrial grade** System-On-Module (SOM) powered by NXP's ARM based IMX280 processor running at 454MHz.

Compact, cost effective and low power design makes LTMX28 an ideal core component for Linux powered hardwares used in industrial control and IOT applications.

By its build-in security features, the LTMX28 can be easily used in most of the cloud-connected applications without any additional hardware.

Single 5V supply, integrated memory blocks and on-board Ethernet Phy allows R&D teams to design application specific base boards without complexity.

### CPU:

- ARM926EJ-S CPU at 454 MHz
- 64MByte DDR2 RAM \*
- 32 MB SPI flash \* (u-boot+kernel+ user)

### Peripherals :

- 1 USB 2.0 Host +1 USB 2.0 OTG
- On board 10/100-Mbps Ethernet MAC
- 2 General purpose 12-bit ADC
- 2 SPI
- 1 SDIO interface
- 4 UART (2 of with RTS/CTS signal)
- I2C master/slave interface
- Up to 23 GPIO

### Power:

- Single 5V supply
- Li-Ion Battery Support
- Low-power modes

### Security:

- 1280 bits of On-Chip OTP ROM
- Read-only unique ID
- Secure boot using 128b AES hardware decryption
- SHA-1 and SHA-256 hashing hardware
- Customer-programmed hidden 128-bit OTP AES key
- High Assurance Boot (HAB4)

### Enviromental:

- -20 C + 85C extended temp.range
- Size : 53x42mm

### Development And Support:

- Board Support Package ( Custom + Yocto)
- KELEBEK Development Board (Open Schematics and gerber)
- Hardware Design Review Support

\* Ask for additional memory.

