Multimedia Applications Processors – Arm9™ Core, Robust Security for Mobile

i.MX27L

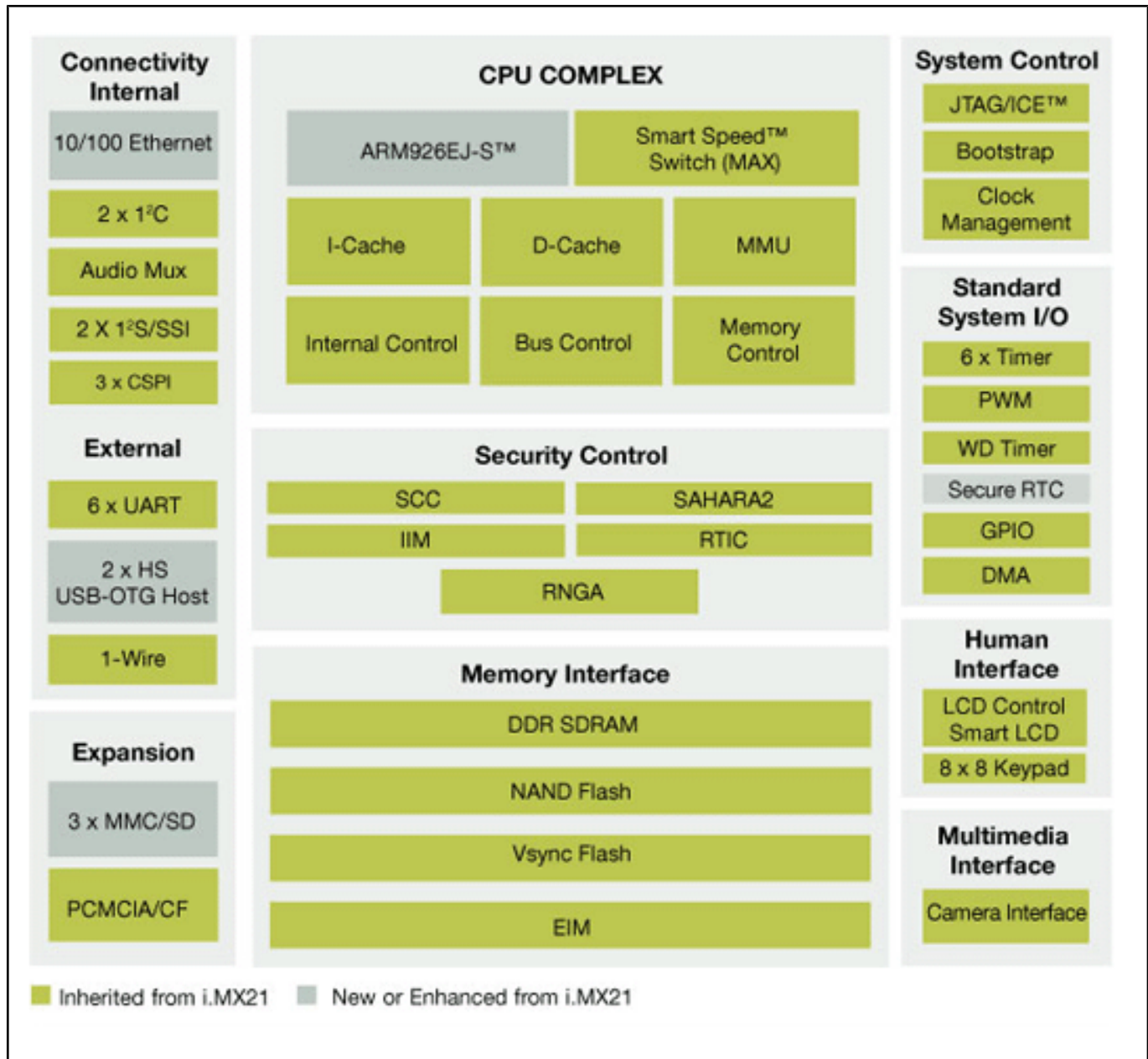**Not Recommended for New Designs**

This page contains information on a product that is not recommended for new designs.

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In response to the needs of design engineers tasked with pushing the performance envelope, packing in a lot of connectivity options and providing robust security in mobile device designs, NXP® presents the i.MX27L multimedia applications processor. Derived from the popular i.MX21 processor and based on the Arm926EJ-S™ core, the i.MX27L processor offers an Ethernet 10/100 MAC, security, plug-and-play connectivity and more power management features. This rich feature set makes it an excellent choice for mobile phones, intelligent remote controls, point-of-sale terminals, control devices, low to mid end PNDs and many other wireless applications.

The i.MX27L is supported by a companion NXP power management IC (PMIC), MC13892.

Freescale i.MX27L Applications Processor Block Diagram Block Diagram

Connectivity Internal
- 10/100 Ethernet
- 2 x I²C
- Audio Mux
- 2 X I²S/SSI
- 3 x CSPI

External
- 6 x UART
- 2 x HS USB-OTG Host
- 1-Wire

Expansion
- 3 x MMC/SD
- PCMCIA/CF

CPU COMPLEX
- ARM926EJ-S™
- Smart Speed™ Switch (MAX)
- I-Cache
- D-Cache
- MMU
- Internal Control
- Bus Control
- Memory Control

Security Control
- SCC
- SAHARA2
- IIM
- RTIC
- RNGA

Memory Interface
- DDR SDRAM
- NAND Flash
- Vsync Flash
- EIM

System Control
- JTAG/ICE™
- Bootstrap
- Clock Management

Standard System I/O
- 6 x Timer
- PWM
- WD Timer
- Secure RTC
- GPIO
- DMA

Human Interface
- LCD Control Smart LCD
- 8 x 8 Keypad

Multimedia Interface
- Camera Interface

Legend:
- ▮ Inherited from i.MX21
- ▮ New or Enhanced from i.MX21

View additional information for Multimedia Applications Processors - Arm9™ Core, Robust Security for Mobile.

Note: The information on this document is subject to change without notice.