

LEC-iMX6

SMARC[®] Short Size Module with Freescale i.MX6 Solo, DualLite, Dual or Quad Processor

Features

- Freescale SoC i.MX6 ARM Cortex A9 Solo, DualLite, Dual or Quad processor
- Integrated 2D/3D graphics processors, 3D 1080p video processing, power management
- Onboard DDR3L/1067 system memory from 512 MB to 2 GB
- Supports up to 64 GB eMMC, 1x SD/MMC, 1x SATA 3Gb/s
- Extreme Rugged ™ operating temperature: -40°C to +85°C

Specifications

• Core System

CPU

Freescale i.MX6 Solo, DualLite, Dual or Quad processor i.MX6 Quad, 4 cores, 800 MHz, 1 MB L2 cache, 3 displays, 1x SATA i.MX6 Dual, 2 cores, 800 MHz, 1 MB L2 cache, 3 displays, 1x SATA i.MX6 DualLite, 2 cores, 800 MHz, 512 kB L2 cache, 1 display, no SATA i.MX6 Solo, 1 core, 800 MHz, 512 kB L2 cache, 1 display, no SATA

Метогу

Onboard DDR3L-1066 system memory from 512 MB to 2 GB

Boot Loader U-Boot boot loader

L2 Cache From 512 kB to 1 MB

SEMA Board Controller

Supports: Voltage/Current monitoring, Power Sequencing, Logistics and Forensic Information, Flat Panel Control, I²C Bus Control, GPIO Control, User Flash, Failsafe BIOS (dual BIOS), Watchdog Timer and Fan Control

Debug Headers JTAG debug interface on test-points

• Audio

Audio Codec Located on carrier

Interface S/PDIF

• Ethernet Interface

Interface 10/100/1000 GbE



I/O Interfaces

PCle 1x PCle x1 USB 2x USB 2.0 host, 1x USB OTG SATA 1x SATA 3Gb/s Flash Memory Up to 64 GB eMMC (custom option) GPIO 12x GPIO with interrupt SDIO 1x SDIO SPI 2x SPI I²C 3x I²C I²S 1x I²S S/PDIF 1x S/PDIF WDT 1x WDT CAN 2x CAN Management Battery and System Management

Camera

Serial MIPI CSI camera, 2 lanes

Parallel PCAM, 10-bit

• Graphics

LCD Parallel LCD 24-bit

LVDS LVDS single channel 24-bit

HDMI HDMI 1.4a

• Graphics

High-performance video processing unit (VPU), supports SD and HD-level video decoders and SD-level encoders as a multi-standard video codec engine, as well as several important video processing functions, such as rotation and mirroring

Mechanical and Environmental

Form Factor SMARC Specifications v1.0

Dimension SMARC full size module, 82 mm x 80 mm

Operating Temperature Standard: 0°C to +60°C Extreme Rugged: -40°C to +85°C

Humidity

5-90% RH operating, non-condensing 5-95% RH storage (and operating with conformal coating)

HALT

Thermal Stress, Vibration Stress, Thermal Shock and Combined Test

• Operation System

Standard Support Windows Embedded Compact 7, Linux

Extended Support (BSP) Android, VxWorks, QNX

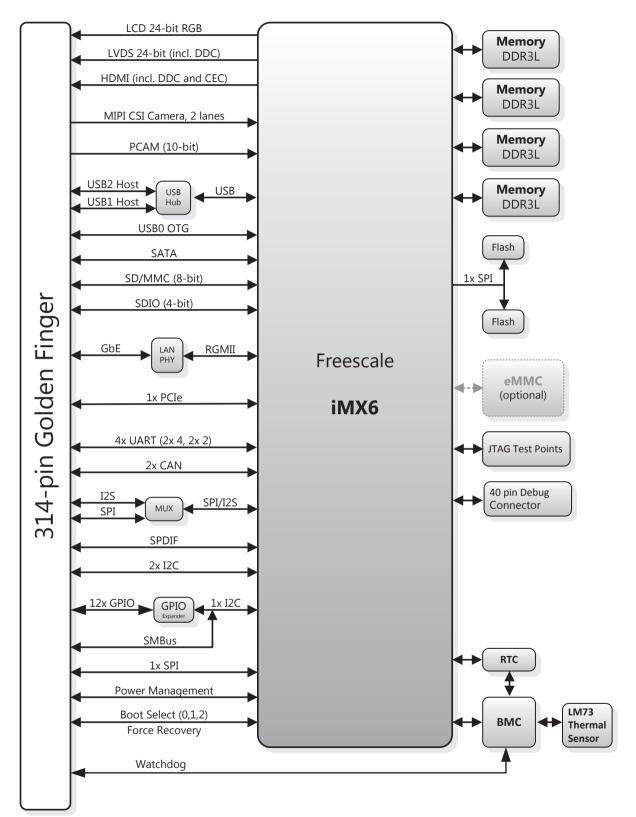
• Intelligent Middleware



Local management, control of embedded computer systems Extended EAPI for monitoring, controlling and analytics applications Multiple OS support and across platforms (x86, ARM)

EMA

Functional Diagram



Ordering Information

LEC-iMX64-2G-8G-ER

SMARC Short Module with Freescale i.MX6, Quad, 2 GB RAM, 8 GB eMMC, Extreme Rugged[™] operating temperature: -40°C to +85°C

LEC-iMX62-2G-8G-ER

SMARC Short Module with Freescale i.MX6, Dual, 2 GB RAM, 8 GB eMMC, Extreme Rugged[™] operating temperature: -40°C to +85°C

LEC-iMX62-1G-4G-ER

SMARC Short Module with Freescale i.MX6, Dual, 1 GB RAM, 4 GB eMMC, Extreme Rugged[™] operating temperature: -40°C to +85°C

• LEC-iMX62L-2G-8G-ER

SMARC Short Module with Freescale i.MX6, DualLite, 2 GB RAM, 8 GB eMMC, Extreme Rugged[™] operating temperature: -40°C to +85°C

• LEC-iMX61-1G-8G-ER

SMARC Short Module with Freescale i.MX6, Solo, 1 GB RAM, 8 GB eMMC, Extreme Rugged[™] operating temperature: -40°C to +85°C

LEC-iMX6-HS

Heatspreader for LEC-iMX6

*other configurations by request



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