



Features

- TI Sitara AM3517 Cortex-A8 Processor
- Robust, vibration resistant 314 pin MXM connector
- LCD display, serial and parallel camera input
- 720p, Multiple I²C, I²S and serial ports
- USB client/host mode operation
- Extreme Rugged™ operating temperature: -40°C to +85°C



SMARC * LEC = Low Energy Computer-on-Module

Specifications

Core System

CPU	TI Sitara AM3517 Cortex-A8 600MHz NEON™ SIMD co-processor and vector floating point co-processor PowerVR™ SGX530 graphics accelerator
Memory	256 MB DDR2 SDRAM (166MHz 16/32-bit mDDR/DDR2 Interface) 512MB NAND flash

Video

CPU	Video Processing Front End (VPFE) 16-bit Camera-in (8-bit) Supports YCbCr 4:2:2 format (8/16-bit with discrete horizontal and vertical sync)
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Display

Programmable display sizes: XGA, WXGA, SXGA+, 720p
24-bit RGB, color and monochrome displays up to 2048 x 2048 x 24bpp

Audio

Interface	3x I ² S, audio codec on carrier board
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Media

Interface	1x USB Host; 1x USB Host/OTG SD/MMC 8-bit, SDIO 4-bit
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Ethernet

Chipset	SMSC LAN8710A-EZK PHY
Interface	10/100 BASE-T Ethernet controller

I/O Interfaces

GPIO	SPI	2x
	I ² C	3x
	UART	2x 4-pin and 2x 2-pin 1x CAN bus

Timer

12x 32-bit general purpose timers
3x 32-bit watchdog timer
1x 32-bit 32-kHz sync timer

Power

Power	PMIC TPS650732
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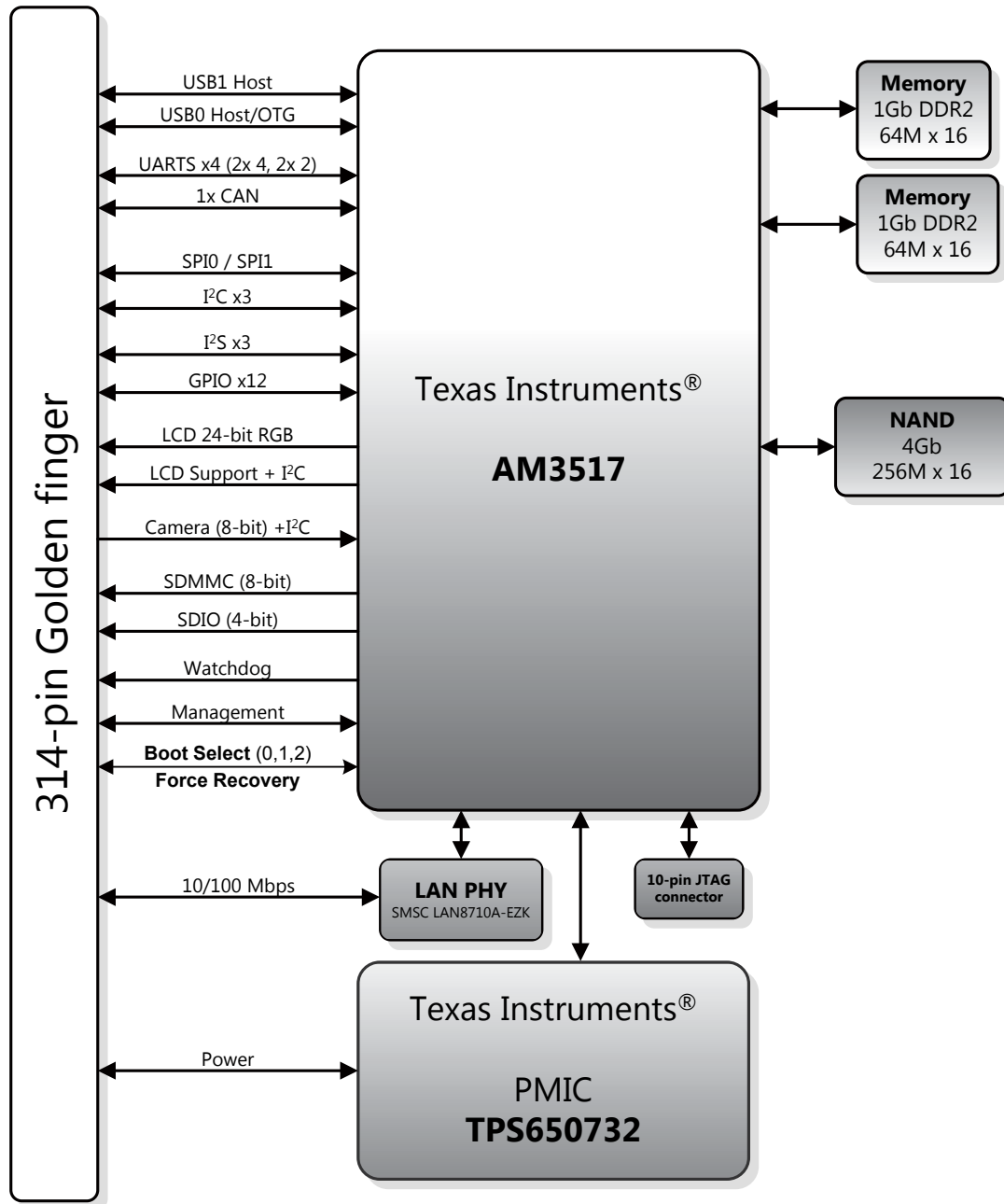
Mechanical and Environmental

Form Factor	SMARC Specification v1.0
Dimensions	SMARC short size module, 82 mm x 50 mm
Operating Temperature	Extreme Rugged™: -40°C to +85°C
Board Connector	MXM 314 pins

Operating Systems

Standard Support	Linux, Android, Windows CE, VxWorks
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Functional Diagram



Ordering Information

Modules

Model Number	Description/Configuration
LEC-3517	SMARC Short Size Module with TI Sitara AM3517 Cortex-A8 600MHz, 256MB DDR2 SDRAM, 512MB NAND Flash, 82mm x 50mm