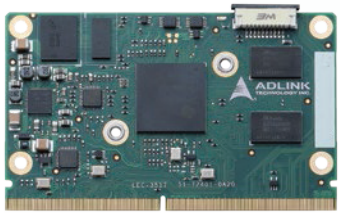
LEC-3517

SMARC® Short Size Module with TI Sitara AM3517 Cortex-A8 Processor

SMARC



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)

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 I²S, audio codec on carrier board

Media

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

Ethernet

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

I/O Interfaces

GPIO	SPI	2x
	I²C	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

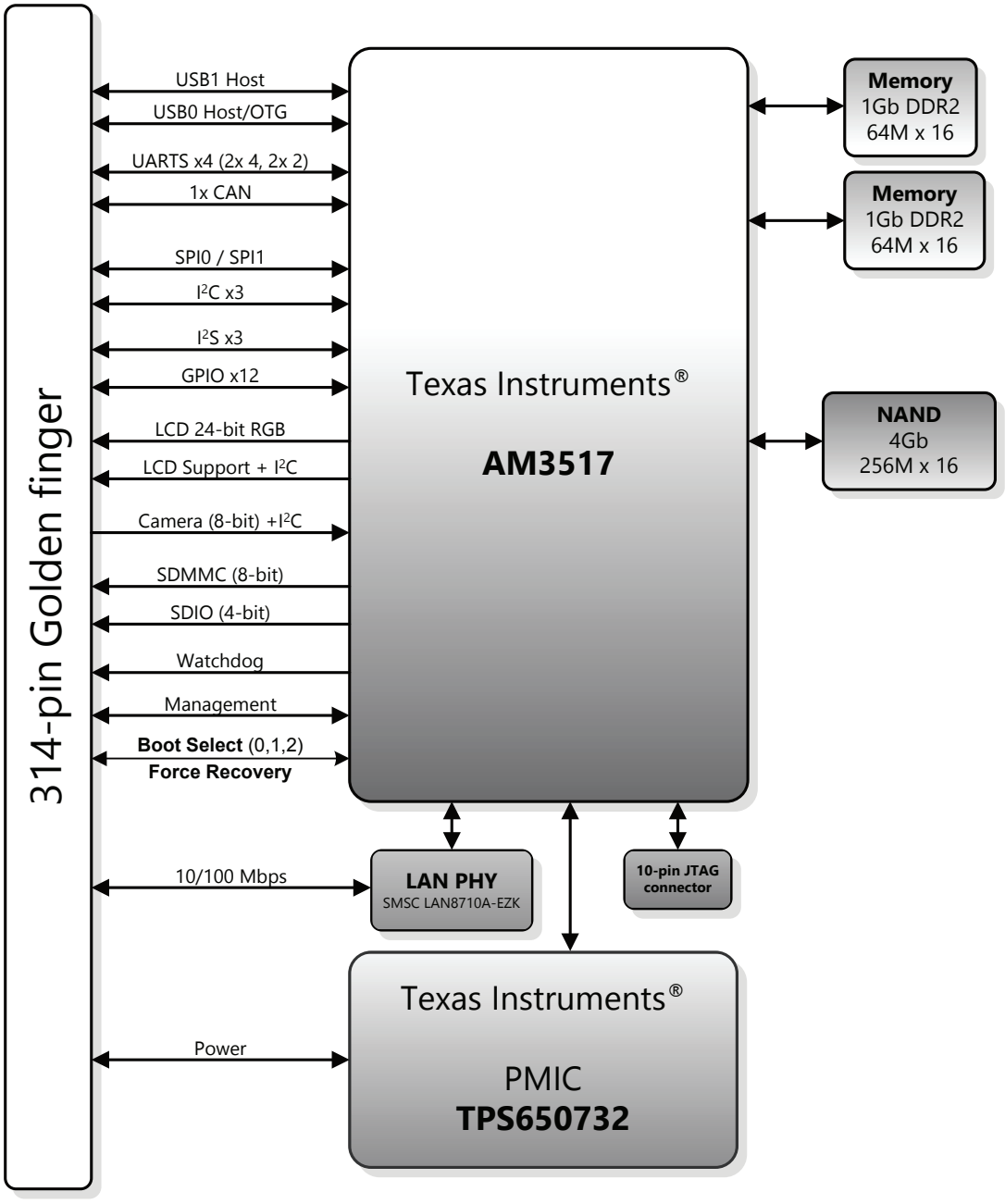
Mechanical and Environmental

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, Windows CE

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
LEC-3517-HS	Heatsink for LEC-3517

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Note: All specifications are subject to change without further notice.