

**NEW**



### Features

- SMARC Short form factor module for low cost and high performance applications
- TI ARM Cortex-A8 processor
- Low profile form factor and low power consumption
- Robust, vibration resistant 314 pin MXM connector
- Optimized for features common to ARM CPUs, including LCD display interfaces; serial and parallel camera input; multiple I<sup>2</sup>C, I<sup>2</sup>S and serial port options; and USB client/host mode operation

### Specifications

#### Core System

TI Sitara AM3517 Cortex-A8 600MHz  
 NEONTM SIMD co-processor and vector floating point co-processor  
 PowerVR SGX™ 530 Graphics Accelerator

#### Memory

256MB DDR2 SDRAM (166 MHz 16/32-bit mDDR/DDR2 Interface)  
 512MB NAND flash  
 64K-Byte SRAM

#### Video

Video Processing Front End (VPFE) 16-bit  
 Supports REC656/CCIR656 standard  
 Supports YCbCr422 format (8-bit or 16-bit with discrete horizontal and vertical sync)

#### Audio

I<sup>2</sup>S, codec on carrier board

#### Display

Parallel Digital Output  
 Up to 24-bit RGB , up to 2 LCD panels  
 Two 10-bit digital-to-analog converters (DACs) supporting:  
 - Composite NTSC/PAL video  
 - S-Video

#### Ethernet

10/100 Base-T Ethernet controller (SMSC LAN PHY)

#### Media Interface

3 x High-Speed MMC/SD/SDIO  
 MMC 8-bit , SDIO 4-bit

#### GPIO

12 signals

#### Timer

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

#### Power

PMIC TPS65023

#### Operation Temperature

Extended: -40 °C to +85 °C

#### Dimensions

82 mm x 55 mm (L x W)

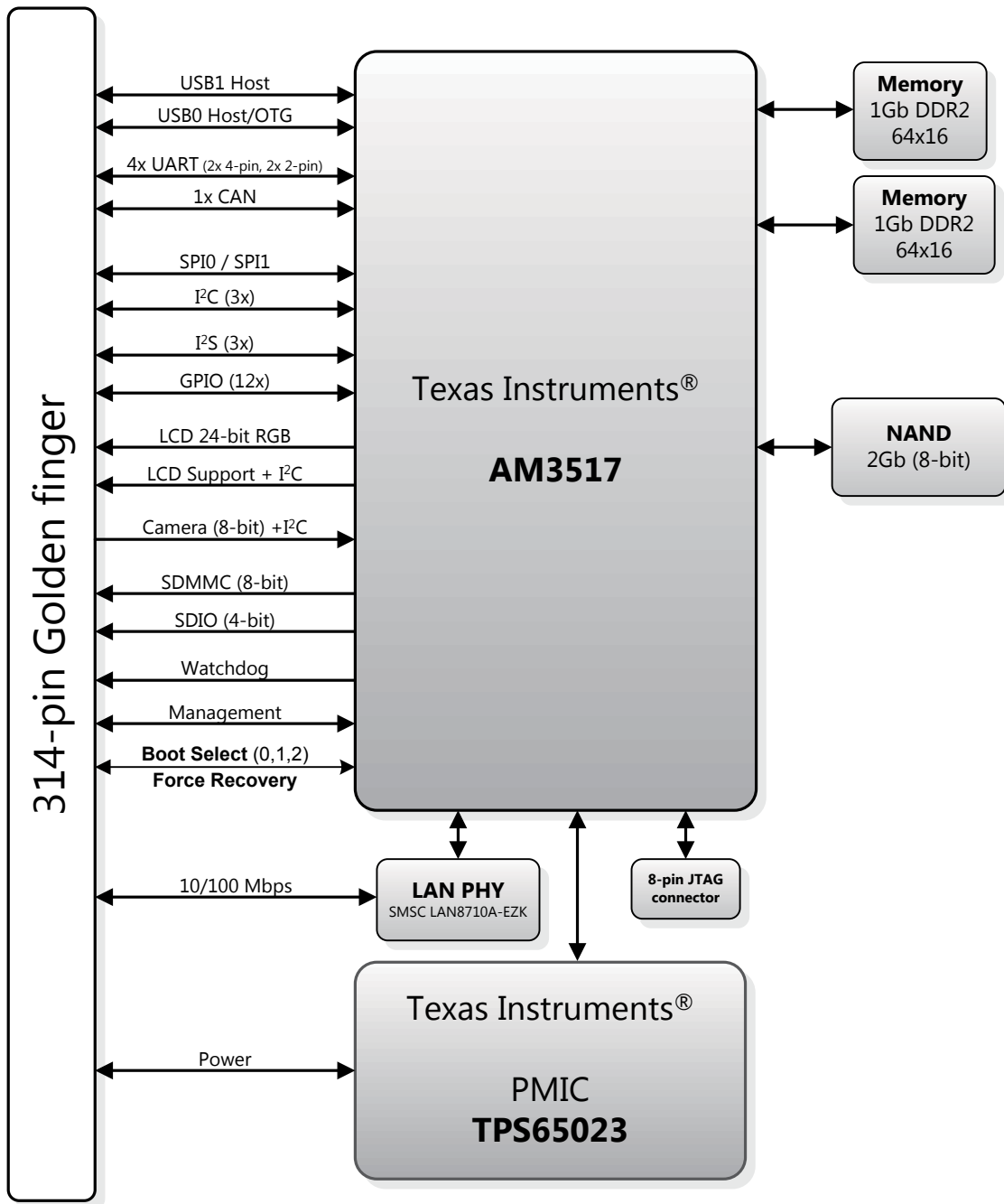
#### Board connector

MXM3 314 pins

#### Operating System

Standard Support      Linux, Android, Windows CE, VxWorks 6.x

## Functional Diagram



## Ordering Information

### Modules

Model Number	Description/Configuration
LEC-3517	SMARC, TI AM3517 Cortex-A8 600MHz, 256MB DDR2 SDRAM, 512MB NAND Flash, 82mm x 55mm