

# AM3517 SOM-M2

## System on Module

Essential features for handheld and embedded networking applications

The AM3517 System on Module (SOM) is a compact, product-ready, hardware and software solution that fast forwards embedded designs while reducing risk and controlling cost.

Based on the Texas Instruments (TI) Sitara AM3517 microprocessor and designed in the SOM-M2 form factor, the AM3517 module offers essential features for handheld and embedded networking applications. The AM3517 SOM-M2 features the superset AM3517 processor.

The standard SOM-M2 form factor allows developers to reuse existing baseboard designs when upgrading to new AM processors, which extends roadmap possibilities for end-products.

The compact size of the AM3517 SOM-M2 is ideal for medical patient monitoring wearables and other portable instrumentation applications. The AM3517 includes an SGX530 graphics accelerator and wired 10/100 Ethernet. For commercial.



### AM3517 SOM-M2

Signage, medical imaging, avionics, and industrial displays, the AM3517 SOM-M2 allows for powerful versatility, long-life, and greener products.

Also, by starting with the eXperimenter Development Kit, engineers can write application software on the same hardware that will be used in their final product.

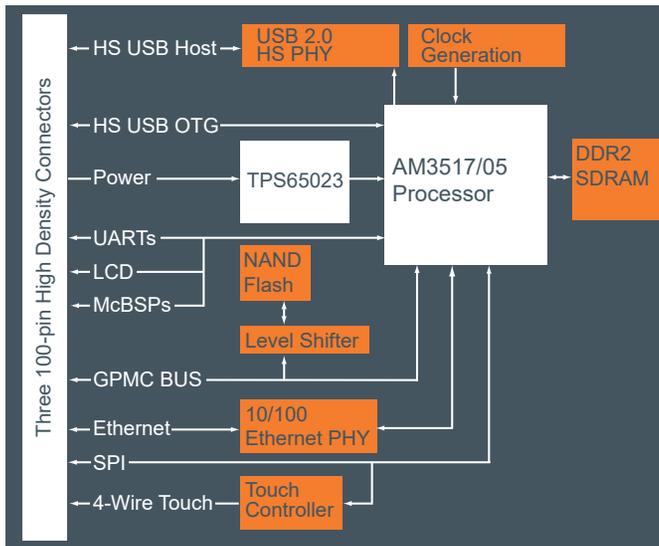
### AM3517 SOM-M2 :: HIGHLIGHTS:

- + Product-ready System on Module with a TI AM3517 processor running at 600 MHz
- + Compact form factor—SOM-M2 (40.9 x 51.2 x 5.4 mm)
- + Linux™ Development Kit
- + Commercial temp (0°C to 70°C)  
Industrial temp (-40°C to 85°C)
- + RoHS compliant
- + Long product lifecycle

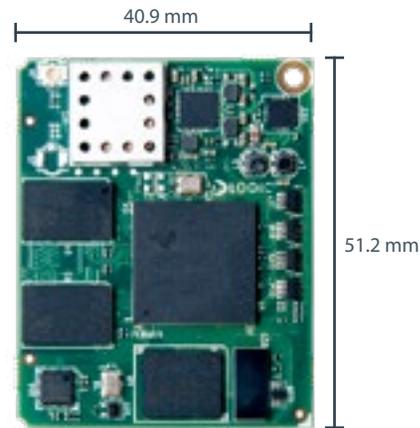
### ZOOM DEVELOPMENT KIT eXperimenter Kit

- + AM3517 SOM-M2
- + Baseboard

## AM3517 SOM-M2 Block Diagram



(Block diagram is not drawn to scale; for reference purposes only.)



## AM3517 SOM-M2 Ordering Information

Model Number	Speed (MHz)	DDR2 (MB)	NAND Flash (MB)	10/100 Ethernet	802.11b/g/n Ethernet	Bluetooth 2.1 + EDR	Temp. (°C)
SOMAM3517-10-1780FJCR	600	256	512	Y	N	N	0°-70°
SOMAM3517-10-1780FJIR	600	256	512	Y	N	N	-40°-85°

NOTE: Custom configurations are available by special order. Please contact Logic PD Sales for details.

## Zoom™ AM3517 Development Kit Ordering Information

Development Kit	Model Number	SOM-M2 Configuration Included	Suggested Resale
eXperimenter Kit <sup>1</sup>	SDK-AM3517-10-256512R	SOMAM3517-10-1780FJCR	\$540

NOTE: 1. The Zoom AM3517 eXperimenter Kit is available through Logic PD distributors.

## Product Features

### Processor

+ TI AM3517 processor with ARM Cortex-A8 core running at 600 MHz

### SDRAM Memory

+ DDR2 256 MB (scalable to 512 MB)

### Flash Memory

+ NAND flash 512 MB (scalable)

### Display & Graphics

+ SGX530 graphics accelerator (AM3517 only)  
+ Programmable color LCD controller supports up to a 24 bpp TFT interface

### Touchscreen

+ Integrated 4-wire touchscreen controller

### Network Support

+ 10/100 Base-T Ethernet PHY

### PC Card Expansion

+ Multiple MMC/SD card support

### USB

+ One USB 2.0 high-speed On-the-Go interface  
+ One USB 2.0 high-speed host interface

### Serial Interfaces

+ Up to four external UARTs  
+ CAN 2.0B controller  
+ Three I2C ports  
+ Three SPI ports

### GPIO

+ Programmable I/O depending on peripheral requirements

### Software

+ U-Boot (bootloader/monitor)  
+ Linux™ SDK

### Mechanical

+ SOM-M2 form factor  
+ 40.9 mm wide x 51.2 mm long x 5.4 mm high

### RoHS Compliant



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