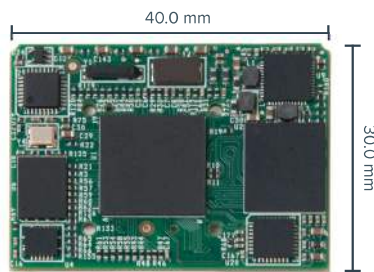
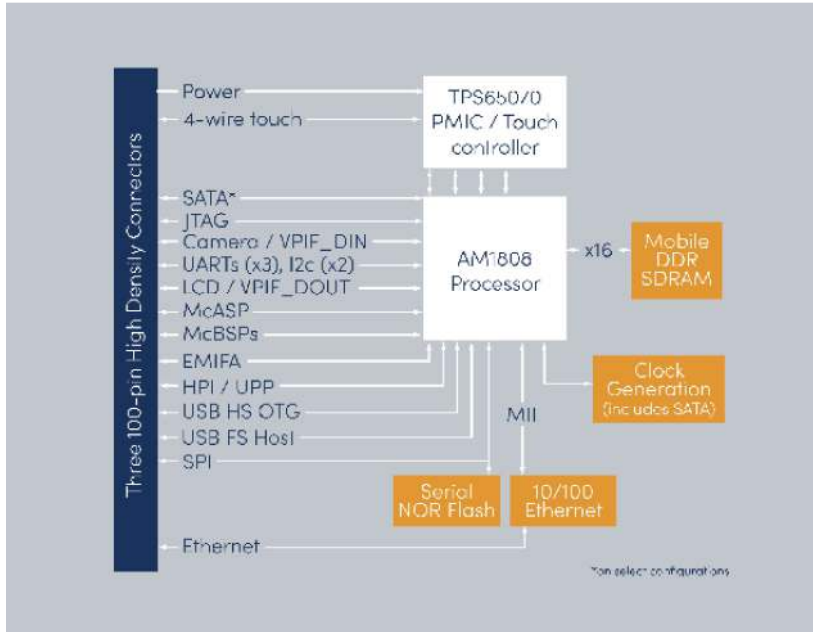




## AM1808 SOM-M1 Block Diagram



Top View

## AM1808 SOM-M1 Ordering Information

MODEL NUMBER	PROCESSOR	SPEED (MHz)	mDDR (MB)	NOR Flash (MB)	10/100 ETHERNET	SATA	TEMP. (°C)
SOMAM1808-10-1503QHCR	AM1808	450	64	16	Y	N	0°-70°
SOMAM1808-10-1603QHCR	AM1808	450	128	16	Y	N	-40°-85°

**NOTES:**

1. Custom configurations are available by special order. Please contact Beacon EmbeddedWorks Sales for details.

## PRODUCT FEATURES

### Processor

- TI AM1808 processor with ARM926EJ-S core running at 450 MHz

### SDRAM Memory

- Mobile DDR (64 or 128 MB)

### Flash Memory

- Scalable serial NOR flash (16 MB standard)

### Display

- Programmable color LCD controller supports up to a 16 bpp TFT interface

### Touchscreen

- Integrated 4-wire touchscreen controller (TPS65070)

### Network Support

- 10/100 Base-T Ethernet controller

### Serial ATA Controller

- SATA 1.5 & 3.0 Gbps support

### PC Card Expansion

- MMC/SD card support

### USB

- One USB 2.0 high-speed On-the-Go interface
- One USB 1.1 full-speed host interface

### Serial Ports

- Three external UARTs
- Two I2Cs

### GPIO

- Programmable I/O depending on peripheral requirements

### Software

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

### Mechanical

- SOM-M1 form factor
- 30.0 mm wide x 40.0 mm long x 4.5 mm high

### RoHS Compliant