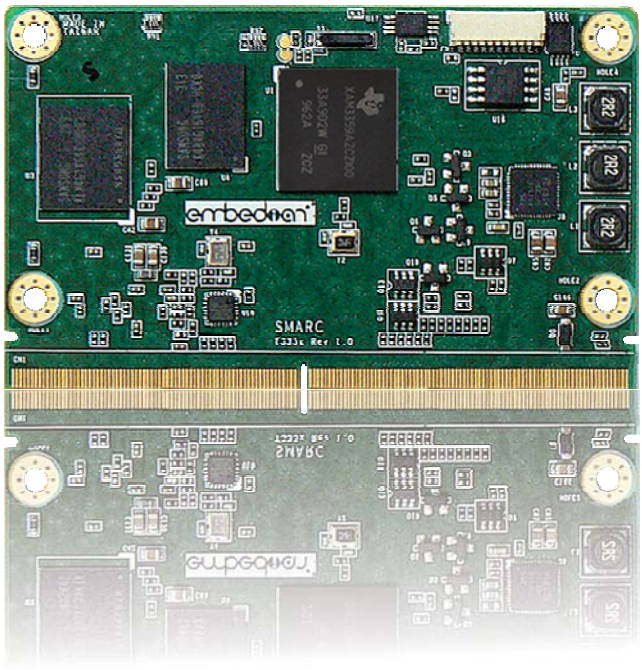
A8

SMARC-T335X



HIGHLIGHTS

- TI Sitara AM335X ARM Cortex-A8
- 600Mhz, 800Mhz and 1Ghz
- 512MB DDR3L and 8GB eMMC
- 2 x Ethernet interfaces
- Long-term availability (10+ years)
- SMARC Compliant

SMARC T335X with maximum flexibility

SMARC is the first COM standard to be built specifically for modern ARM-Cortex system on chips (SoCs), aiming to efficiently pass along ARM benefits such as low power consumption to COTS designs. Texas Instrument'AM335x nearly embodies a perfect processor for the SMARC concept.

The benefits of standardization are listed as follows.

Reduced cost
Mass production equals a better price performance ratio

Improved quality
Mass production equals higher product quality

Improved negotiating power for the buyer
Standards drive product differentiation and competition toward price and service and away from features.
This gives buyer both better pricing and better support.

Standard architectures
Allows software teams to develop new applications faster with fewer people.

Scalable and flexible
More module offerings can be applied to the same platform.

modularized design | low power | wide temperature | extensive supports | cost effective | high performance | long lifecycle

Technical Information

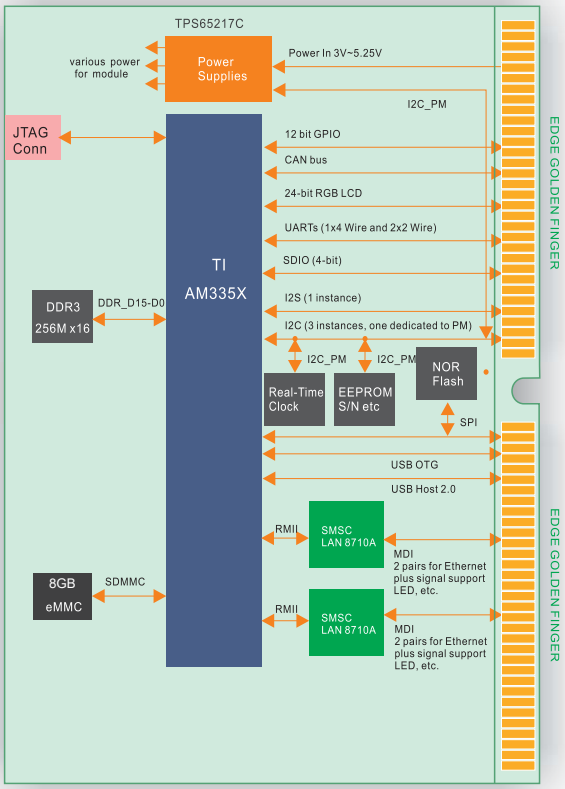
SMARC T335X Module

Processor	TI Sitara AM335X ARM Cortex-A8 up to 1GHz
Memory	Onboard 4GB eMMC Onboard 512MB DDR3 Onboard 4MB SPI NOR Flash Onboard 4KB EEPROM
Networking	2 x 10/100Mbps Ethernet
Display	Parallel RGB LCD 24-bit
Expansion	1 x SD/SDHC, 1 x USB Host 2.0
USB	1 x USB Host 2.0, 1 x USB OTG
Additional Interfaces	3 x UARTs, 2 x SPIs, 3 x I2C, 1 x I2S, 1 x CAN Bus, 2 x PWM, 12 x GPIOs
SW Support	Linux 3.2 / Linux 3.12 Android ICS
Power	2 Watts typical

Evaluation Carrier

Ethernet	2 (RJ45)
RS 232	2 (10-way 2mm header)
USB Host 2.0	1 (Type A)
USB OTG	1 (mini B)
SD/SDIO Card Slot	1
CAN Bus	1 (10-way 2mm header)
SPI	2 (14-way 2mm header)
I2C	2 (14-way 2mm header)
GPIO	1 (14-way 2mm header)
LVDS	1 (24-bit ZIF)
Parallel LCD	1 (18-bit FPC)
4-wire resistive touch	1 (ZIF)
Stereo Audio	1 (10-way 2.54mm header)

Block Diagram



Evakuation Kit – Accelerated Design

The SMARC T335X Evaluation Kit is intended to serve multiple needs and summarized as followed:

- SMARC T335X bring-up platform for hardware and software development.
- Module validation platform.
- Customer evaluation platform.
- Customer design reference.
- Manufacturing test platform.
- Flexible prototyping vehicle (facilitated by multiple mezzanines).

Embedian, Inc.
4F.-7 432 Keelung Rd. Sec.1
Taipei 11051, Taiwan
Tel: +886 2 2722 3291
http://www.embedian.com