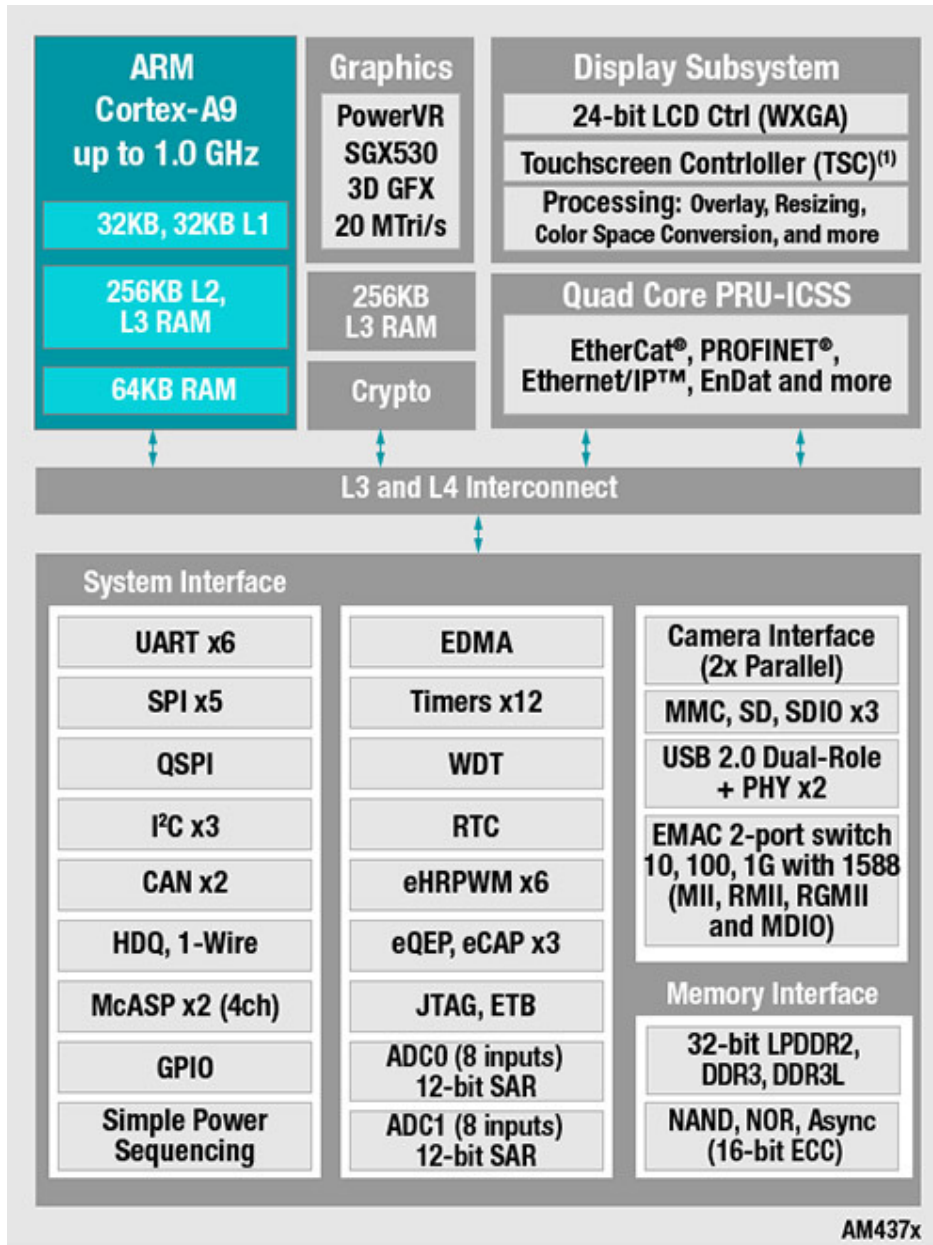


Product Overview

SBC-EC8800 is designed on TI's high-performance processor - AM437X with ARM Cortex-A9 core. Under the design of the compact body size, SBC-EC8800 provides plenty of peripheral interfaces with Gigabit Ethernet, USB2.0(Host, OTG), LCD, Camera, Micro SD card, WIFI and Bluetooth (optional), and through the onboard 80pin(40*2) header connector, it can extend the signal interface of I2C, UART, RGMII, SPI, MCASP, ADC, PWM, CAN and RS485, etc., it is a wonderful solution for the applications such as Industrial Automation, Navigation Equipment, Patient Monitoring, Point of Service, test and measurement, etc.



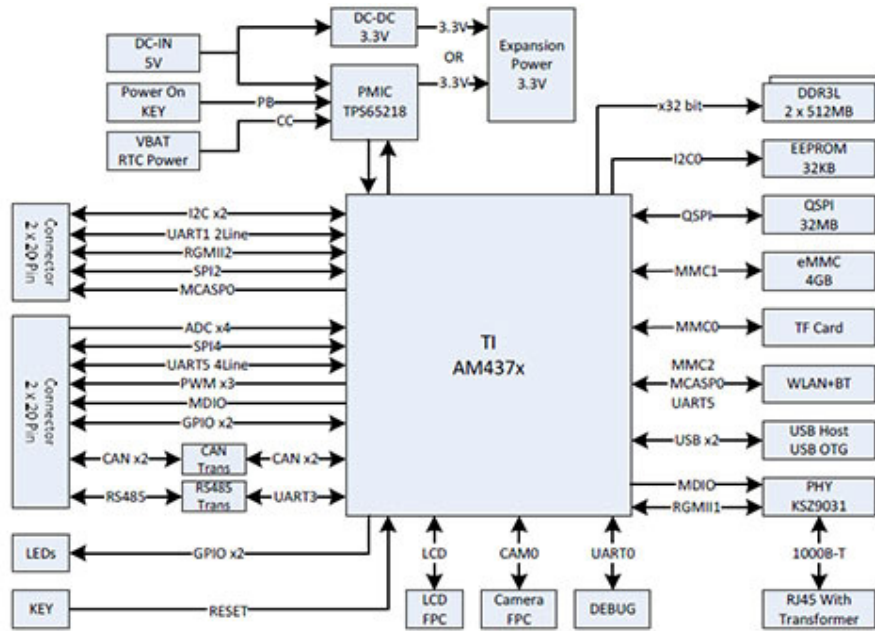
SBC-EC8800



NOTES:

(1) Use of TSC will limit availability of channels on one ADC

AM437X Functional block Diagram



SBC-EC8800 Block Diagram
SBC-EC8800 Block Diagram

Hardware Features

Item	Feature Description (Industrial)	
CPU	TI AM437X	ARM Cortex-A9 core, 1G HZ
DDR	1 GB DDR3L	MT41K256M16HA-125 : E
Onboard Memory	4GB EMMC 32MB QSPI 32KB EEPROM	MTFC4GACAAAM-4M IT N25Q256A13EF840 CAT24C256WI-G
DC-in	5V	5V DC Jack
Power Management	TI Power Management IC	TPS65218
Display	24 Bit LCD interface	Support Embest 4.3inch、7inch LCD
Camera	Support 12 bit Camera	Support Embest standard camera module
External Storage	Micro SD Card for storage extension	
Communication	1*gigabit Ethernet port, 1*USB OTG, 1*USB Host, 1*Industrial WIFI + Bluetooth (optional) , 1*DEBUG	
Onboard Interfaces	Gigabit Ethernet, USB2.0(Host, OTG), LCD, Camera, Micro SD card slot	

Signal extension	80PIN (40*2) header connector, compatible with Raspberry Pi (40pin) and can extend the following signal as well: 2*I2C, 2*UART, 1*RGMI, 2*SPI, 1*MCASP, 4*ADC, 3*PWM, 2*GPIO, 2*CAN, 1*RS485.
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Software:

- a) Linux

Accessories:

- LCD: Embest 4.3/7 LCD Display
- Camera: CAM-8000D /8100D
- WIFI+Bluetooth:
 1. USB WIFI Dongle: WIPI
 2. Onboard WIFI +Bluetooth module (optional for OEM) , TI WILINK technology