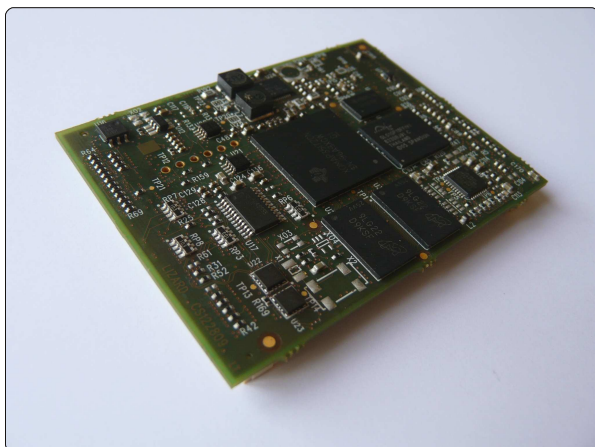


Lizard

Texas Instruments AM3505/AM3517 CPU module



- Cost-effective CPU module based on Texas Instruments AM3505/3517 CPU
- ARM Cortex-A8 architecture @ 500 MHz
- NEON Multimedia Coprocessor
- PowerVR® SGX 530 Graphics Engine (AM3517 only)
- Small form factor
- Rich interfaces set including CAN, Ethernet and native 3.3V I/O
- Naon/Zefeer pinout compatible
- Evaluation Board available with exhaustive Development Kit



LIZARD is a ready-to-use CPU module based on Texas Instruments AM3505/3517 high performance application processor.

LIZARD is the cutting edge solution for a high range of applications where extended connectivity, sophisticated displays, rich user-interfaces are required, including industrial electronics, smart home controllers, security systems, automation and point of service.

LIZARD is designed to be easily included in customer's embedded systems, due to the small form factor, the inexpensive stacking connectors and the pinout compatibility with DAVE's Performance line CPU modules family.

Main Features

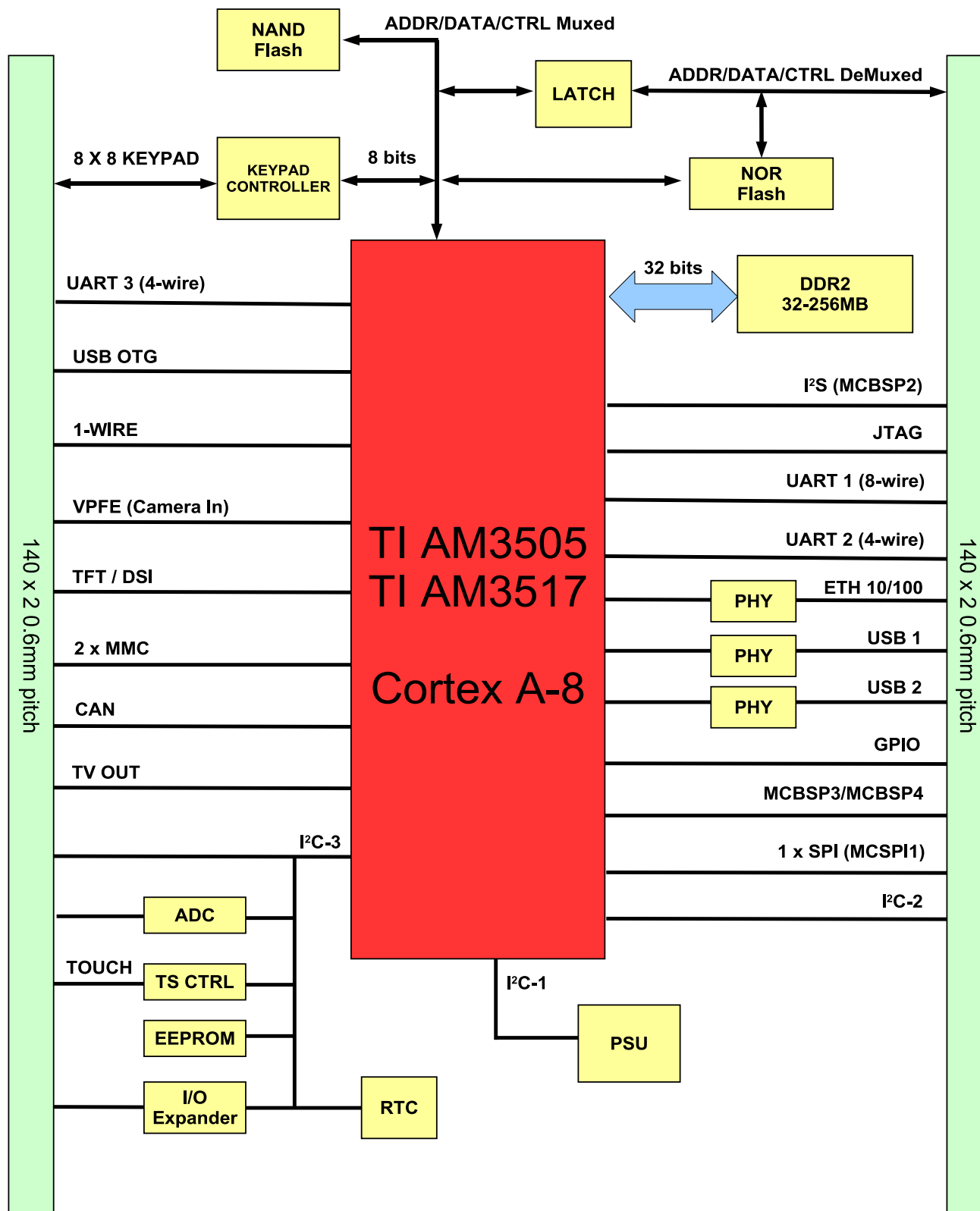
- Up to 256 MB DDR2 SDRAM
- Flash NOR and Flash NAND on board
- 2 x USB Host, 1 x USB OTG
- 2 x SD/MMC
- High-end CAN controller
- Fast Ethernet LAN
- Display subsystem: up to 24 bit, 74.25 Mhz pixel clock, TFT and TV out
- Video Processing Front End (VPFE), 16-bit video input port
- Touch Screen controller
- 3 x UART, 2 x I²C, 1 x SPI, 1 x I²S
- Small form factor: 70mm x 50mm
- 3.3V GPIO available



Dave S.r.l.
Via Talponedo, 29/A - 33080 Porcia (PN) - Italy
Tel. + 39 0434 921215 - Fax + 39 0434 1994030

Web Site: www.dave.eu
E-mail: info@dave.eu
Product line: <http://www.dave.eu/products.html>

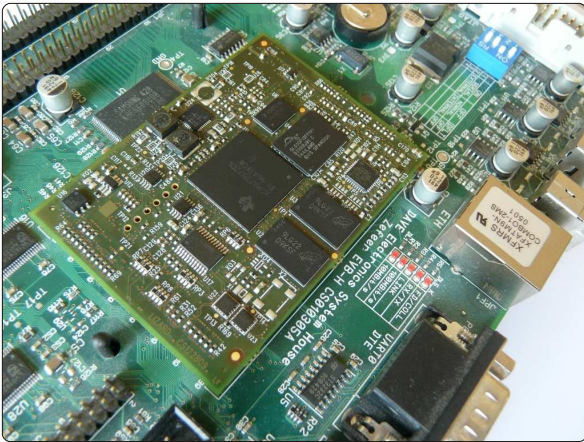
Block Diagram



Technical Specification

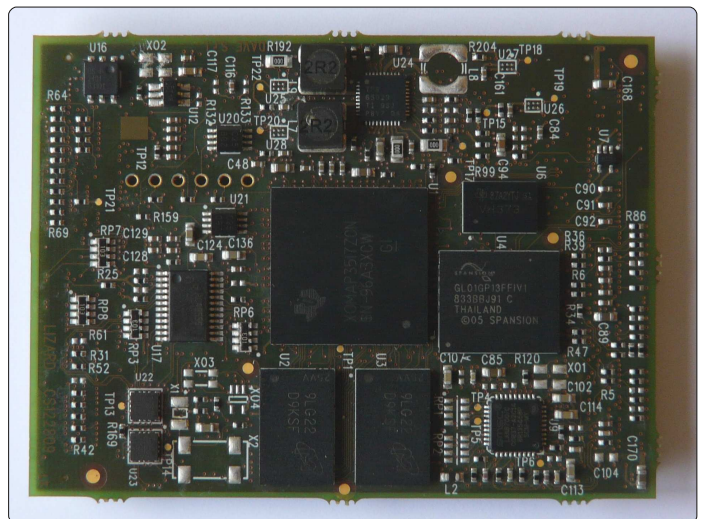
CPU	Texas Instruments AM3505/AM3517 ARMv7 architecture Cortex A8 @ 500 MHz
Multimedia	NEON Media Technology (Advanced SIMD coprocessor) PowerVR SGX530 Graphics Accelerator (AM3517 only) Up to 10 Mpoly/s, support for OpenGL ES 1.1/2.0 and OpenVG 1.1
Supervisor	On board power supply supervision and power sequencer Watchdog
Memory	
Cache	16 Kbyte instruction, 16 Kbyte data, 256 Kbyte L2
SDRAM	64, 128, 256 MB DDR2
NOR	8, 16, 32, 64, 128 MB
NAND	All sizes, on request
SRAM	64 Kbyte
EEPROM	Yes
Interfaces	
LAN	Fast Ethernet 10/100 Mbps
UART	3 x UART ports (1x full, 2x four-wires)
USB	2 x 2.0 Host ports, 1 x OTG port
CAN	1 port (2.0B protocol)
External Bus	GPMC 16-bit bus
Debug	JTAG IEEE 1149.1 Test Access Port
PC Card	2 x SD/MMC card
Audio	I ² S
Other	2 x I ² C channels 1 x 1-Wire 1 x SPI channel GPIOs available 8x8 Keypad
Video	
Resolution	Up to 2048x2048 @ 24bpp, 74.25 MHz pixel clock
Type	TFT/DSI
Touch Screen	Yes
TV out	Yes
Input	VPFE 8-bit video port in
Mechanical	
Connectors	2 x 140 pins 0.6mm pitch
Physical	70 mm x 50 mm
Temperature	Commercial (0°C / +70°C) Temperature Range Industrial (-40°C / +85°C) Temperature Range
PSU	
Input	3.3V, voltage regulation on board
Consumption	TBD
Software	
Bootloader	U-Boot
Multitasking OS	Linux 2.6.xx Windows CE 6.x Android 2.x

Key Factors



- Top performances
 - High computational power
 - Great power efficiency
- Power Supply
 - 3.3V, 1.8V regulated on board
- Back compatibility
 - Pluggable on DAVE's Zefer designed host boards

- Industrial specification compliance
 - Extended temperature range (-40°C/+85°C)
 - Rich interfaces set
- SD/MMC
 - Full compliance with MMC standard specification ver. 4.0
 - Full compliance with SD Physical layer specification version 1.10d
 - High speed SD mode supported
- CAN
 - Implementation of the CAN protocol version 2.0A/B



Lizard Order Codes

Please contact our Sales Department (sales@dave.eu) for available models and prices.



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