

Evaluation board for SPEAr320 embedded MPU

Data brief

Features

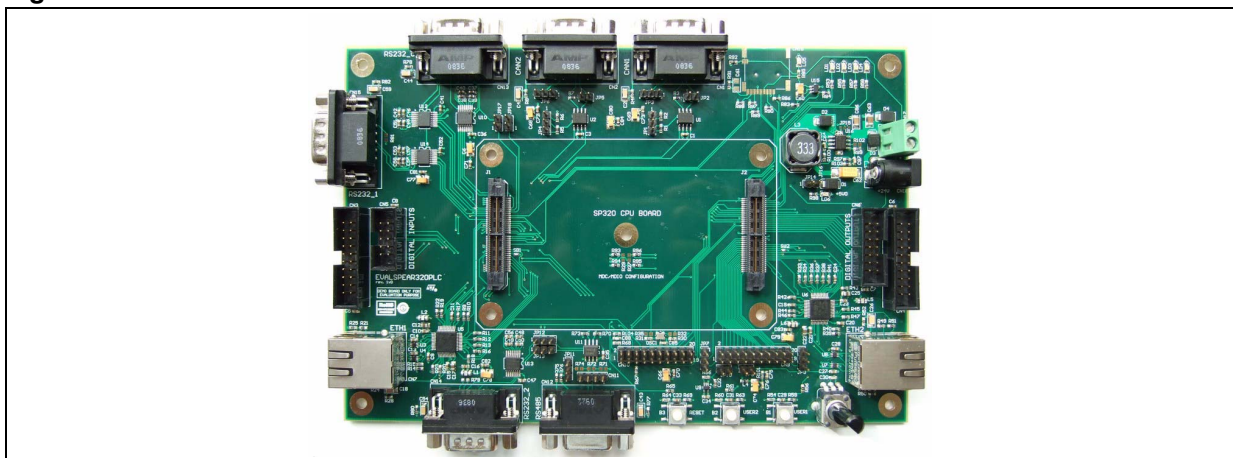
- CPU board
 - SPEAr320 embedded MPU
 - Up to 2 Gbits DDR2 333 MHz (std 128 Mbytes)
 - Up to 16 Mbytes serial Flash memory (std 8 Mbytes)
 - Two USB 2.0 full host port channels
 - One USB 2.0 host device port
 - One serial port (up to 115 baud)
 - JTAG debug ports
- Application board
 - 2 x Ethernet RJ-45 connectors (ST802RT1A)
 - 2 x CAN DB9 plug connectors
 - 3 x RS-232 DB9 plug connectors (ST3232EBTR)
 - 1 x RS-485 DB9 socket connector (ST3485EBDR)
 - Digital input connectors (parallel and serial) compatible with STEVAL-IFP007V1, STEVAL-IFP008V1 and STEVAL-IFP004V1 evaluation boards
 - Digital output connectors (parallel and serial) compatible with STEVAL-IFP009V1, STEVAL-IFP001V1, STEVAL-IFP002V1 and STEVAL-IFP006V1 evaluation boards
 - On-board temperature sensor (STLM20W87F) and potentiometer (analog input for ADC)
 - Analog extension connector featuring 8 ADC lines
 - General-purpose extension connector with GPIOs and I²C functionality
 - DC/DC converter L7986A (+24 V / +5 V)
 - MicroSD card socket
 - 4 LEDs, 2 general-purpose buttons and system reset button

Description

This evaluation board can be used to evaluate the SPEAr320 microprocessor with a variety of devices and especially its media independent interface (MII) automation mode.

The EVALSPEAR320PLC evaluation board kit consists of two boards: a CPU board and a MII mode application board. The SPEAr320 microprocessor is mounted on the CPU board that is plugged on the MII mode application board.

Figure 1. EVALSPEAR320PLC evaluation board



Revision history

Table 1. Document revision history

Date	Revision	Changes
20-Sep-2010	1	Initial release.

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