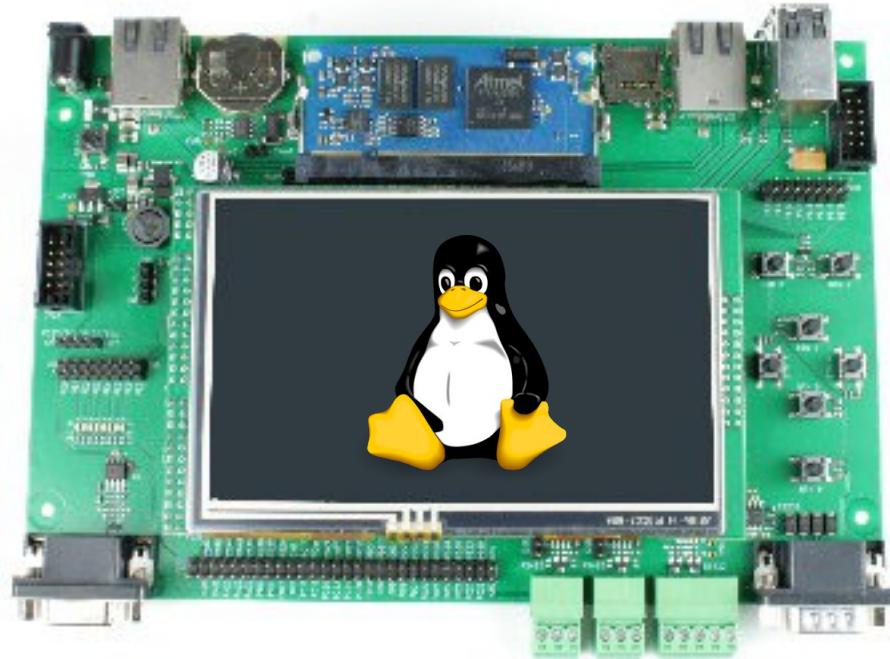


ADB4003 Evaluation Board

for ICnova SAMA5D3x SODIMM modules



Features

Connectors:

- 1x SODIMM-200 (ICnova SAMA5D3x Module)
- 2x RJ45 (Ethernet)
- 2x USB-A (Host)
- 1x USB-A (Device)
- 1x D-SUB DE-09 male (RS232)
- 1x D-SUB DE-09 female (CAN)
- 2x PHOENIXCONTACT MC1,5/3 (RS485)
- 1x PHOENIXCONTACT MC1,5/5 (RS422)
- 1x MICRO-SD
- 2x BOX-HEADER (JTAG, ProgDev)
- 14x PIN-HEADER (GPIO, DBGU, I2C, Vref, Terminator)
- 1x HEBW21 (Power)



Only one 12V to 24V power supply required

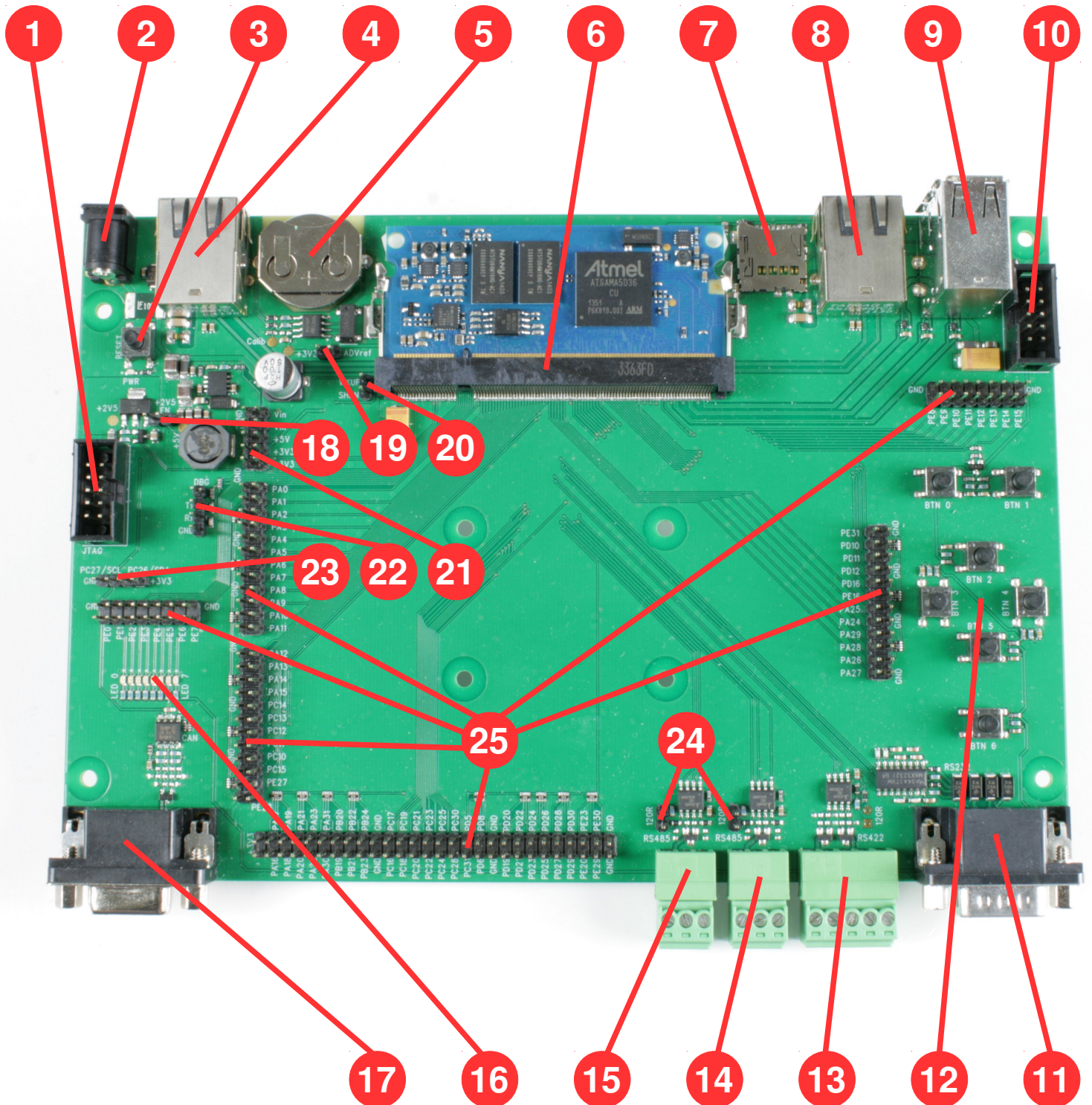
Generated On-Board:

- 2.5V (FUSE)
- 5V (VIN)

Dimensions:

- 200mm x 140mm x 30mm
- Temperature range -40°C to 85°C

Board Layout

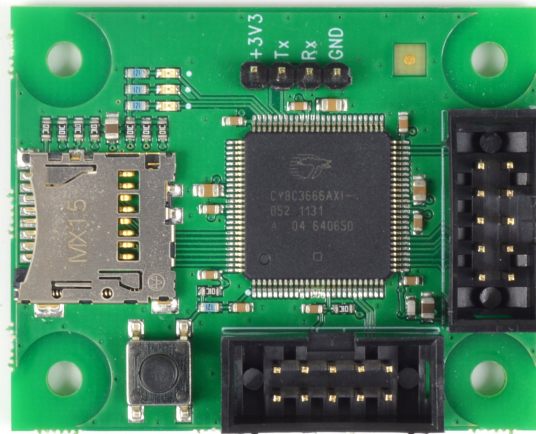


Board Description

1	JTAG Connector (Pin: 1=TCK, 2+10=GND, 3=TDO, 4+7=3.3V, 5=TMS, 6=RESET, 8=TRST, 9=TDI)
2	Power Input (inside=Vin, outside=GND)
3	Reset Button
4	LAN-1 Connector for 10/100 Mbit Speed
5	Real Time Clock Backup Battery
6	SODIMM 200 Socket for SAMA5D3 Module
7	uSD Card Reader
8	LAN-2 Connector for 10/100 Mbit Speed
9	USB Connectors
10	Programming Device Connector
11	RS232 Connector (Pin: 2=RX, 3=TX, 7=RTS, 8=CTS, 5=GND, 4 and 6 connected)
12	GPIO Input Buttons
13	RS422 Transmitter and Receiver Connector (Pin: 1=Y, 2=Z, 3=B, 4=A, 5=GND)
14	RS485-1 Transmitter or Receiver Connector (Pin: 1=A, 2=B 3=GND)
15	RS485-2 Transmitter or Receiver Connector (Pin: 1=A, 2=B 3=GND)
16	GPIO Output LEDs
17	CAN Bus Connector (Pin: 2=L, 7=H, 3=GND, 6=GND)
18	Fuse Programming Jumper
19	AD Reference Voltage Jumper
20	Shutdown/Wake-up Pins
21	Voltage Pin Header (Vin/5V/3.3V/GND)
22	Debug Interface
23	I2C Bus Connector
24	RS485 Termination (120R) Jumper
25	GPIO Pin Header (the inner three also used for LCD)

Accessories

An programming device is available for the ICnova SAMA5D3x + ADB4003.
It supports simple programming of ICnova SAMA5D3x NOR flash over SPI.



We also offer:

- Hardware design of base boards optimized for your application
- Prototype and mass production using our in-house production lines
- Assembly options, adapted to your requirements, of our standard products
- Linux driver development and adaption



Contact

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Change history:

Version	Date	Changes	Editor
A	08.08.2014	First version	Schmidt