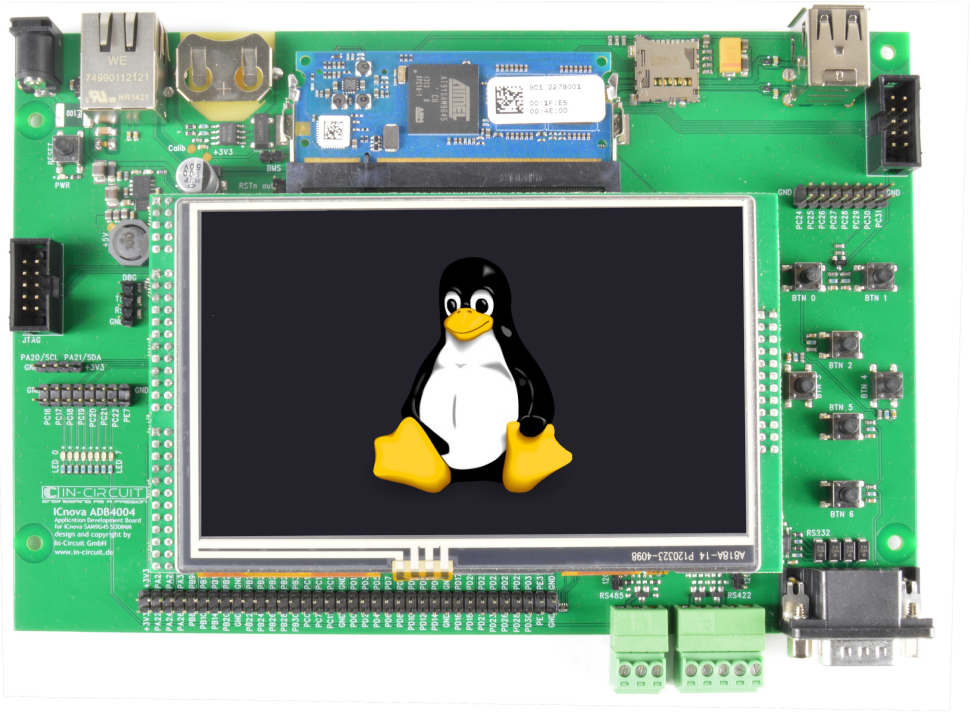
ADB4004 Evaluation Board

for ICnova SAM9G45 SODIMM modules



Features

Connectors:

- 1x SODIMM-200 (ICnova SAM9G45 Module)
- 1x RJ45 (Ethernet)
- 1x USB-A (Host)
- 1x USB-A (Device)
- 1x D-SUB DE-09 male (RS232)
- 1x PHOENIXCONTACT MC1,5/3 (RS485)
- 1x PHOENIXCONTACT MC1,5/5 (RS422)
- 1x MICRO-SD
- 2x BOX-HEADER (JTAG, ProgDev)
- 13x PIN-HEADER (GPIO, DBGU, I2C, BMS, Terminator)
- 1x HEBW21 (Power)

Only one 12V to 24V power supply required

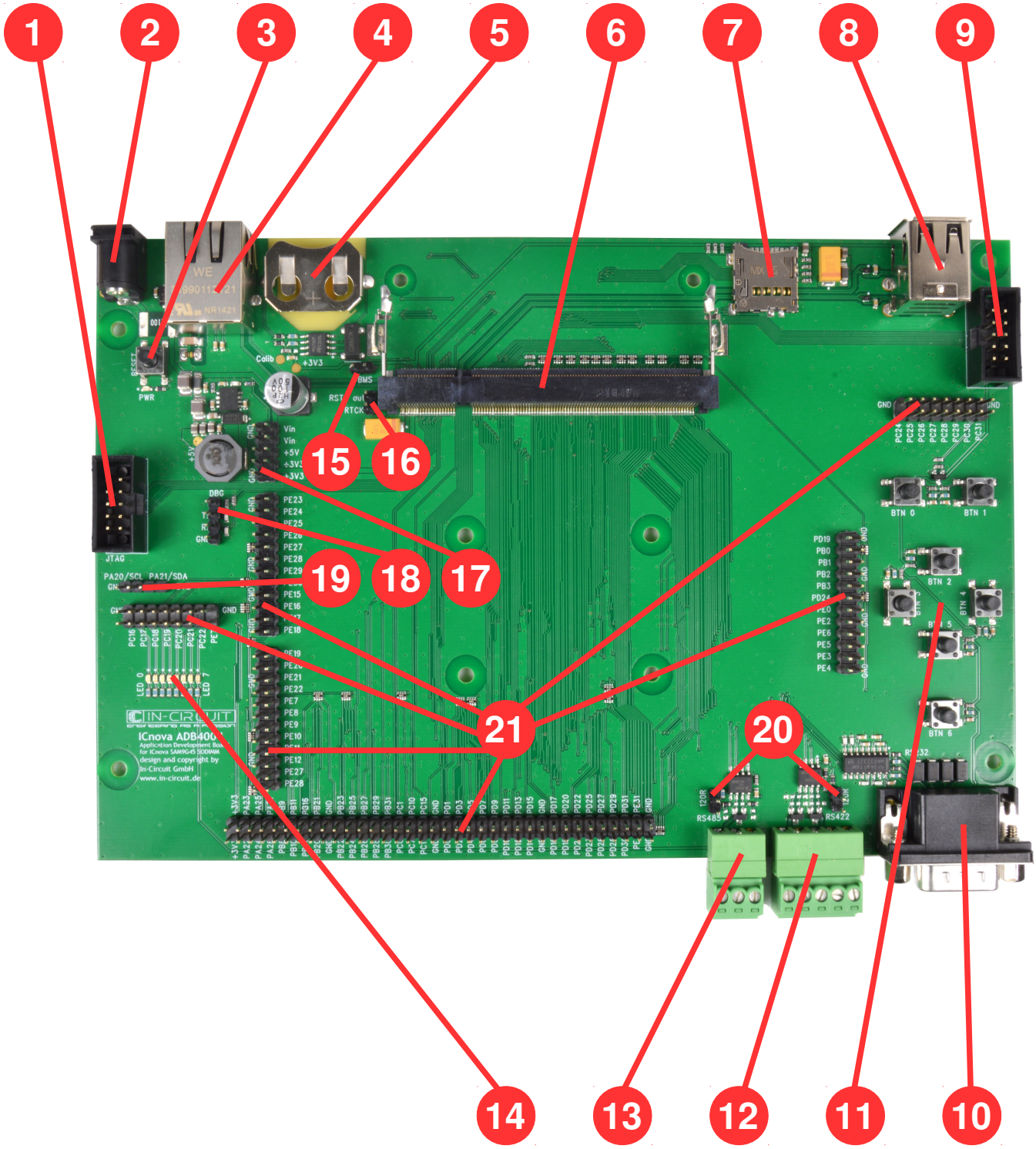
Generated On-Board:

- 5V (VCC)

Dimensions:

- 200mm x 140mm x 20mm
- Temperature range –40℃ to 85℃

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 SAM9G45 Module
7	uSD Card Reader
8	USB Connectors
9	Programming Device Connector
10	RS232 Connector (Pin: 2=RX, 3=TX, 7=RTS, 8=CTS, 5=GND, 4 and 6 connected)
11	GPIO Input Buttons
12	RS422 Transmitter and Receiver Connector (Pin: 1=Y, 2=Z, 3=B, 4=A, 5=GND)
13	RS485-1 Transmitter or Receiver Connector (Pin: 1=A, 2=B 3=GND)
14	GPIO Output LEDs
15	Boot Mode Select Jumper
16	Return Test Clock/Reset Out Pins
17	Voltage Pin Header (Vin/5V/3.3V/GND)
18	Debug Interface
19	I2C Bus Connector
20	RS485/RS422 Termination (120R) Jumper
21	GPIO Pin Header (the inner three also used for LCD)

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

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Change history:

Version	Date	Changes	Editor
A	03.09.2014	First version	Schmidt