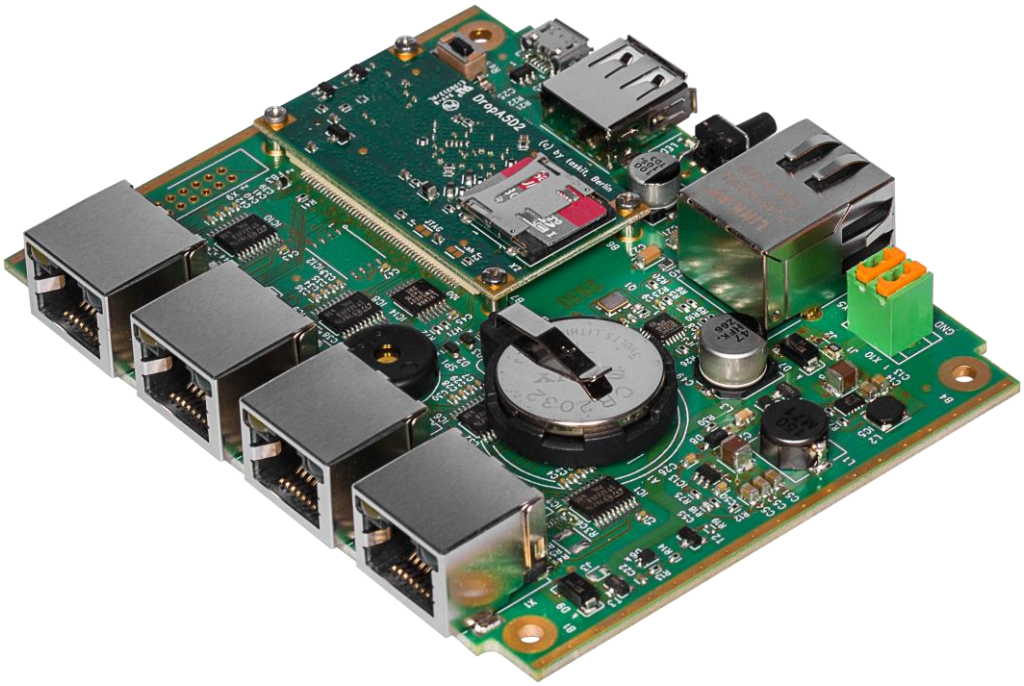
Technical notes



NanosA5D2 – with RS485/422
Version 1.0 EN

NanosA5D2: Version 1.0 EN

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Multi-Port RS232/RS422 Controller with Linux

Prozessor: Atmel SAMA5D22 (ARM Cortex-A5 Core) with 500 MHz
MicroSD-Card Slot
NAND-Flash max. 512MB (optional)
NOR-Flash max. 64MB (1MB standard)
Beeper
Backup battery (for real time clock)
Front side controle button, e.g. for "Wake-Up", or application specific

Linux on MicroSD-Card

Board dimensions: 100mm x 80mm
Components over board: 14mm

Supply voltage: 6..28V, via connector Phoenix FK-MPT or Passiv-PoE (Power-over-Ethernet)

Interfaces:
20pin expansion port (2x10 contacts, 2mm pitch, for female or male connector), with SPI, I^2C, comparator, "Tamper-Detection"-Pins.

Ethernet 100 Mbit/s

USB 2.0 (Host + Device)

Serial interfaces:
8x RS232
Or alternatively:
4x RS422 full-duplex
Or alternatively:
4x RS485 half-duplex

Connector: RJ45 (space saving compared to DSUB-9)

Assignement of the RJ45- sockets for the different assembly variants:

	RS232	RS422	RS485
1:	TXD1	TXD-	Data-
2:	TXD2/RTS	TXD+	Data+
3:	RXD1	RXD+	-
4:	24V	24V	24V
5:	24V	24V	24V
6:	RXD2/CTS	RXD-	-
7:	GND	GND	GND
8:	GND	GND	GND