Datasheet

Avisaro SD Module M20511

with RS232, CAN, SPI or I2C Interface (TTL level)

- Processor is run by the Avisaro firmware (preloaded).
- Module can be controlled by scripts written in a modified language based on Basic (for guidance see Avisaro Webpage www.avisaro.com/tl/docu-home.html).
- Several finalized scripts are available. Scripts can be modified or written individually.
- A real-time clock is integrated with external power supply.
- Module is RoHS conform.

Interfaces

Between the following types of interfaces one can chose - one type at the time.

CAN interface

- Two CAN-interface, thereof one with reduced capacity
- Massage format 2.0A and 2.0B
- Passive "Listen Only" mode
- Active sending and receiving massages
- Baud rate up tp 1 Mbit/s
- maximum writing speed: 300 kb/s
- Signals exported as CAN Tx and Rx (3.3V-TTL level)
- Mode control for special CAN transceivers available

RS232 or RS485 Interface

- Two RS232-Interfaces, thereof one with reduced capacity
- Baud rate: 1200 bit/s up to 1 Mbit/s
- maximum writing speed: 300 kb/s
- 7/8 Data bits
- RTS/CTS and XON/XOFF flow control
- Signals with TTL Level

I2C Interface

- Master and slave mode up to 400 kBit/s

SPI Interface

- Fastest Interface up to 5MHz bus speed
- only slave mode

Power supply

- Power supply: 3.3V (+/- 0.1)
- Consumption: 90 mA (at 3.3V)
- Signal input TTL conform
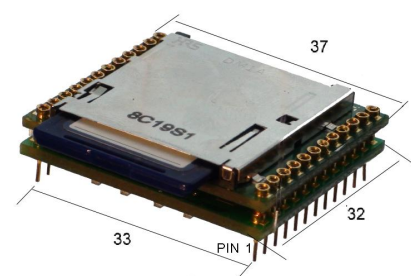- Separated power pin for the real time clock

Connection type

- The interface and the power are connectable by a 2 x 12 socket board in the usual 2.54 mm grid fed, distance of the two pin rows 33,02 mm.
  (see separate pin layout)

Mechanical data

- Dimensions: 37 x 32 mm, relevant height: 10mm
- Weight: 14 g
- max. Temperature range: -30°C bis 85°C

  c: length of solder pin: 3mm
  d: front edge to center of pin 1: 2mm
  e: back edge to center of pin 12: 1.5mm

Memory cards / file system

- SD and SDHC memory cards up to 16 GB
- Card Slot: "push-push" looking
- FAT32 file system, short file names (8.3),
- files directly to the PC to read.
- maximum writing speed: 300 kb/s

Configuration

The configuration of the data logger will be done via a configuration file that must be loaded once at every change of the configuration. In this file details of the interface are given, such as baud rate, etc.. All configuration data are preserved even during power failure.
In alternation the configuration can be made via the interface.

Accessories:

Connector boards

Connector Board with various interfaces are available.
These have a switching regulator for the power supply
and the appropriate interfaces driver, on-board.
For example, for RS232 or CAN. To quick start or
when it comes to compact design.

Wireless LAN Trailer

In addition to the SD Module there is an optional wireless lan
trailer. This permits the transfer of the logged data to a
network unit.

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