Datasheet

Avisaro WLAN Module W20511

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
- Signals exported as CAN Tx and Rx (3.3V-TTL level)
- Mode control for special CAN transceivers available

RS232 Interface

- Two RS232-Interfaces, thereof one with reduced capacity
- Baud rate: 1200 bit/s up to 1 Mbit/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: 280 mA (at 3.3V)
- Signal input TTL conform
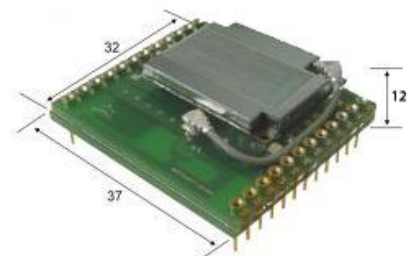- Separated power pin for the real time clock

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: 12mm
- 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

WLAN specification

- WLAN 802.11 b/g
- WPA + WEP
- Range-outdoor: max. 250 m
- Range-indoor: 30-50 m

Configuration

The configuration of the data logger will be done via WLAN interface or via data interface. A script has to be loaded as well as details of the interface might have to be changed such as baud rate, etc.. All configuration data are preserved even during power failure. The WLAN administration page can be reached by connecting on a adhoc-mode to the network 'avisaro' and then opening the browser with the ip-address (192.168.0.74) of the module. Standard-User/Password are admin/1234.

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.

SD card module

In addition to the wireless lan ability there is an optional sd card slot to store that data for time without connection or as additonal back-up.

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