MiDAS-1010

Multi-function Data Acquisition

LIENVIET
Powerful inside!

MiDAS 1010 collects data from analog and digital I /Os then transfers to remote central server based on predefined interval and alarm events. The central can requests data any time from any of the remote MiDAS station and it also controls remote for various appliances.

- Remote Telemetry/ Control/ Health Check

- Home/Building/Factory Automation and Facility Management

- Traffic Monitoring and management

- Vending machine monitoring

- BTS equipment room status monitoring and control

- Water Supply and tube well monitoring and control

- Distributed Control System and SCADA system

Technical specifications

Class 1 Bluetooth®

- Bluetooth 2.1/2.0/1.2/1.1 and v2.0+EDR

- Embedded SPP/DUN stack support, no host or processor stacks required

- Small-form factor 24 Pin DIP package (0.1" pitch by 0.9" socket width)

- Accepts 4Vdc to 24Vdc power (RN-24)

- Hardware TTL, RS- 232 and RS-485 levels

- RS-485 signaling with auto-direction control (RN25 only)

- UART baud rate: 1200bps up to 921.6Kbps

- 9 General Purpose Input/Output Pins (4ma source/sink) controlled via remote commands

Multi-function Data Acquisition

- 2 Channel 8 Bit AD converter (5Hz, 0-1.8VDC)

- LEDs indicate connection and RX/TX status

- On board antenna or external SMA jack

- Low power consumption (30mA connected,, <10mA sniff mode)

- Programmable over local UART and Bluetooth

- Simple ACSII command interface

- UART (SPP or HCI) and USB (HCI only) data connection interfaces

- Sustained SPP data rates - 240Kbps (slave),300Kbps (master)

- Embedded Bluetooth stack profiles included (requires no host stack): GAP, SDP, RFCOMM and L2CAP protocols, with SPP and DUN profile support.

GPS receiver

- Fully integrated multi channel GPS engine

- Embedded Microstrip Patch antenna

- Noise Free Zone SystemTM Technology

- SiRFstarIII GSC3LTf chipset

- L1 frequency, C/A code

- 20 channels searching, 12 channels parallel tracking

- Acquisition sensitivity: -157dBm

- Tracking sensitivity: -159dBm for indoor fixes

- Fast TTFF: <35s (typical) under Cold Start conditions

- Rapid TTFF by aiding information upload capability

- Multipath mitigation

- Indoor tracking

- SBAS (WAAS, MSAS, EGNOS) support

- Multi-Mode Assisted GPS (A-GPS) support1: Autonomous, MS Based, MS Assisted

- Extended Ephemeris for very fast TTFFs support through SiRF InstantFix2

- Automatic and user programmable power saving scenarios

- Low power consumption: 100mW during acquisition

Multi-function Data Acquisition

- ARM7 baseband CPU

- Selectable UART or SPI hardware interface

- Programmable UART protocol and message rate

- Selectable NMEA-0183 or SiRF Binary communication standards

- Single operating voltage: 3.3V to 5.5V

- Small footprint: 17mm x 17mm

- Surface Mount Device (SMD)

- Optimized for automatic assembly and reflow equipment

- Industrial operating temperature range: -40^0 to 85^0C

GSM/GPRS

- QUAD Band with 850/900/1800/1900 MHz

- Ultra small GSM GPRS module (30 x 30 x 2,8mm)

- Available with SIM holder onboard (GC864-SIM)

- TCP/IP - UDP/IP stack on board - EASY GPRS

- E-mail client included

- FTP Client on board

- GPRS Class 10

- 80 pin board to board molex connector

- GCS RF connector

- Get the network parameters with EASY SCAN

- Write your own code inside with EASY SCRIPT (Python)

- GSM Jamming Detection

- RTC, 7 General Purpose IOs, SPI- and I2C- Bus

- 2 x RS232 (CMOS)

- Top-of-Class MTBF

- GSM Jamming Detection

Ordering parts

MiDAS-1010/@/#

- @ Power supply. External power adapter normally.

    o BAT using battery backup power (12VDC, 4.5Ah).

    o ~ Customized order

- # Communication interface

    o RS RS232 interface for upgrade system.

    o ~ Customized order

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