The A1074 family of telematics products combines fastest time-to-market, an excellent price-performance ratio, and state-of-the-art technology. It addresses all mobile applications that require accurate positioning and communication that is based on cost-effective, convenient and secure standard internet protocols. The heart of the A1074 family members is the industry standard ARM7TDMI 32-bit RISC CPU, optimized for embedded applications requiring lowest power consumption.

**Complete**
- Ready-to-use product
- Short time-to-market
- Wide support for application implementation
- Standard interfaces
- Lowest system costs
- Compliant to worldwide legislation
- CE, FCC, A-tick
- Use in vehicles
- E-Marking
- Numerous expansion options
- Additional wired or wireless interfaces
Vast Application Areas

Further features of the family include robust I/O, a wide power input range, a CANbus interface and battery option, making the A1074 family ideal for automotive applications. As qualified and certified products with standard interfaces for I/O and antenna connections, the A1074 family members provide advantages in terms of low system, installation and market entrance cost. With excellent tools and professional support for application implementation to save our customers' investment and know-how, this product is ideally suited for easy integration into existing client & server based back end office solutions.

Technical Details A1074

**INPUT/OUTPUT**

- **Digital inputs**
  - 3 (protected transistors)
  - 1 (protected transistors)
- **Digital outputs**
  - 3 (1.5V prot. FET) 32 V / 1 A
- **Serial data**
  - 1 RS232 (Rx/Tx)
- **Tremble switch**
  - 1 int. with configurable sensitivity
- **LED/button**
  - 2-wire interface
- **Dallas interface**
  - 1-wire interface
- **CANbus**
  - Optional** for vehicle diagnosis
- **Expansion boards**
  - Optional**, e.g. 2nd RS232, RS485, 2nd CANbus, LIN, K-Line, 802.15.4/ZigBee, RFID reader, etc.
- **Micro SD card holder**
  - Optional** for micro SD card up to 8 GB (logging, mapping)

**POWER**

- **Input voltage** 8 to 32 V DC
- **Current draw**
  - Operational 85 mA (typ.)
  - Sleep mode 0.5 mA
- **Battery**
  - Standard 6 V / 0.5 mAh
  - Large 6 V / 1.2 mAh
- **Power alarm**
  - External power fail
  - Low battery voltage
- **Protection**
  - Reverse polarity protection
  - Over-voltage protection
  - Internal self-resetting fuse

**COMMUNICATION**

- **Internet**
  - UDiMP User Datagram Protocol
  - TCP/IP Transfer Control Protocol
  - FTP File Transfer Protocol
  - XMPP Extensible Messaging and Presence Protocol
  - Email Standard message format for addressing human beings
  - SMS Short Message Service
  - Data call Asynchronous 9.6 kbps when no GPRS is available

**MECHANICAL**

- **Dimensions**
  - (standard battery version) 135.0 x 89.0 x 35.5 mm³
  - (large battery version) 135.0 x 89.0 x 53.5 mm³
- **Weight**
  - (with battery) 255 g / 9.0 oz.
  - (with battery) 465 g / 16.4 oz.

**ENVIRONMENT**

- **Temperature**
  - Operation -30°C to +75°C (no battery)
  - Storage -40°C to +85°C
- **Humidity**
  - 95 % max. non-condensing up to IP54

**MAJOR COMPONENTS**

- **GPS Receiver**
  - Vincotech A1090-A SiRFStarIII
  - Channels 20 parallel tracking
  - Position accuracy (horizontal) < 2.5 m CEP autonomous
  - Sensitivity -159 dBm (tracking)
  - -142 dBm (acquisition - cold)
- **GSM/GPRS modem**
  - Enfora Enabler IIIG
  - Quad-band 850/900/1,800/1,900 MHz
  - Mode GPRS, CSD, SMS, Voice
  - GPRS Multi-Slot Class 10 (4Rx/2Tx) up to 85.6 kbps
- **µ-Controller**
  - STR710 ARM7TDMI 32-bit RISC
  - SRAM 512 kbit internal
  - plus up to 8 Mbit ext.
  - Flash 8 Mbit ext. (default)
  - up to 32 Mbit

**CONNECTORS**

- **Main**
  - 25-pin D-sub (female)
- **GPS antenna**
  - SMA (female)
- **GSM antenna**
  - FME (male)

**PRODUCTS**

- A1074-x Advanced Telematics Platform

* Depending on application
** Please contact Vincotech for details, available options, variants and application firmware support

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