



A1074

Positioning Products

Advanced Telematics Platform

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

Further features of the family include robust 1/0, 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 1/0 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.





- Transport & Logistics
- Security & Surveillance
- Insurance Rental
- Cars/vans/trucks
- Company car pool management
- Private/business trip recording
- Taxi/bus fleets management
- Motor homes and caravans
- Boats
- Mobile construction equipment
- Farm machinery

MAJOR COMPONENTS

Vincotech A I 080-A SiRFStarIII
20 parallel tracking
< 2.5 m CEP autonomous
-159 dBm (tracking)
-142 dBm (acquisition - cold)
Enfora Enabler IIIG
850/900/1,800/1,900 MHz
GPRS, CSD, SMS, Voice
Multi-Slot Class 10 (4Rx/2Tx)
up to 85.6 kbps
STR710 ARM7TDMI 32-bit RISC
512 kbit internal
plus up to 8 Mbit ext.
8 Mbit ext. (default)
up to 32 Mbit

MECHANICAL (standard battery version)

Dimensions	135.0 × 89.0 × 35.5 mm ³
	5.3" × 3.5" × 1.4"
Weight (with battery)	255 g / 9.0 oz.

MECHANICAL (large battery version)

Dimensions	$135.0 \times 89.0 \times 53.5 \text{ mm}^3$
	5.3" × 3.5" × 2.1"
Weight (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
Protection	up to IP54

Technical Details A1074

POWER

Input voltage	8 to 32 VDC
Current draw	
Operational	85 mA (typ.)
Sleep mode	0.5 mA
Battery	LeadAcid
Standard	6 V / 0.5 mAh
Large	6V / I.2 mAh
Power alarm	External power fail
	Low battery voltage
Protection	Reverse polarity protection
	Over-voltage protection
	Internal self-resetting fuse

INPUT/OUTPUT

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

YOUR PARTNER **COMMUNICATION***

Internet	
UDP/IP	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

CONNECTORS

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

PRODUCTS

INODUCIS	
A1074-x	Advanced Telematics Platform
	"x" is a placeholder**

^{*} Depending on application ** Please contact Vincotech for details, available options, variants and application firmware



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Vincotech GmbH Biberger Straße 93 82008 Unterhaching/Germany

+49 (0)89 8780 67-0 +49 (0)89 8780 67-300 Fax

www.vincotech.com/gps