

WAY™

designed and developed by:
FIKO
GROUP OF COMPANIES

WORLD NAVIGATION PRODUCTS

iTX1200 AVL

Your GPS tracker and mobile phone

High performance SiRF Star III GPS receiver

(20 channels, L1-C/A code, DGPS EGNOS/WAAS, WGS84, NMEA, SiRF binary)

Tri-Band GSM/GPRS phone modem

(900/1800/1900 MHz - GPRS class 10 - Approvals R&TTE, FCC, IC, GCF, PTCRB and CE)

Real-time tracking with 100,000 GPS history storage

(equal to 28 hours of driving or tracking - download via GPRS or cable)

Alarm function and ring indicator detection

(ring indicator to be used with WAY Q-SAMA Audiomaster 44 or other units)

uFDEX network and communication protocol

(uses uFDEX intelligent data communication between WAY and other products)

THE WAY iTX1200 AVL

WAY iTX1200 AVL ("Automatic Vehicle Location") a 3-band GSM/SMS wireless communications system from FIKO, uses compact state-of-art GPS and GSM technology specially designed for satellite navigation and tracking for collection and dissemination of information in vehicle-based electronic systems, vehicle tracking and positioning, SMS messaging and control, transportation, online vehicle navigation, geo-referencing information systems, emergency assistance and for measuring and survey projects.

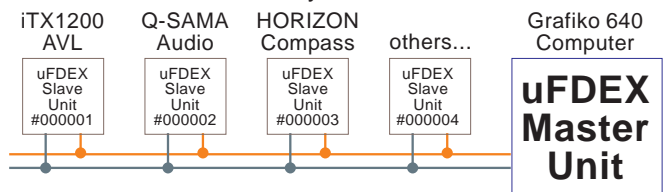
WHERE ARE YOU?

WAY iTX1200 AVL provides precise location information to locate any person, vehicle, ship or boats (within GSM coverage) and this is why our company group did choose the name "WAY" as it stands for "Where Are You?"

uFDEX AT YOUR RESCUE

uFDEX was developed by FIKO for the single reason to give its users more flexibility when it comes to integration, communication and liability in connecting several navigational and audio products together. Keywords for uFDEX success is RS-232/USB integration as each unit may act as MASTER or SLAVE in a uFDEX network that may also connect to CAN-bus, RS-422, RS-485, Bluetooth or Wi-Fi.

uFDEX data are treated as an additional command set to the original communication data stream like i.e. the NMEA strings sent from the GPS receiver, so such data are still available for you to use and will work with and not effect your GPS/NMEA software.



uFDEX module diagram

Each uFDEX HUB can connect maximum 8 uFDEX devices to one COMM-port like i.e. RS-232 or USB* but a total of 16,777,215 units can be addressed under uFDEX.

READY TO GO?

The WAY iTX1200 AVL is ready to go within seconds after you have inserted your SIM-card. All you need to do is to address your phone number(s) and set the tracking record intervals for minimum speed and you're ready to track your vehicle with live GPS data, no matter where you or your vehicle are in the world. You can sit back and watch your vehicle position on your PC or over the Internet - live....

μFDEX BUS SYSTEM® as option

* Requires i.e. FIKO's iUSB a USB to RS-232 converter

THE WAY IT SHOULD BE

Just 70 gram
measuring only 37x52 x21mm

winAVL iTX1200 application software



winAVL software

The free of charge "winAVL" Windows™ software developed by Fiko Software Co., Ltd. is a all-in-one tracking, navigation, GSM, SMS and Multimedia software that in fact are able to handle all iTX1200, Q-SAMA and other uFDEX enabled products including NMEA GPS and WAY Horizon 60 GPS/Gyro system. As free software, you have with winAVL access to a new World of mobile computing.

winAVL has also capabilities to directly address and control external hardware via our DOLLXP32 Kernel Device Driver for Windows 2000 and XP..

With winAVL together with WAY iTX1200 and other WAY products, you can in fact from your desktop computer make all your phone calls, AVL tracking, SMS messaging and all other features that our system are offering. You may also use the software to switch i.e. ON/OFF any electrical application that you may have connected to the uFDEX communication bus system. Since the system works out of one RS-232 or USB port, it's extremely easy to install and use.



winAVL Station software

The winAVL Station software is capable to show AVL-recorded tracks by downloading such track data directly from iTX1200, over GPRS or directly via cable. winAVL Station comes with it's own recording function where you may add Point of Interest (POI) or essential data directly from within the maps.

makeMAP is a specific map software developed by Fiko Software Co., Ltd. to create geo-referenced raster maps. If you like to scan and create your own geo-referenced raster maps for winAVL, makeMAP is available for purchase via e-commerce on <http://www.gnss-tech.com>. All you need to know is the Longitude and Latitude co-ordinates on the map, map resolution and some other optional map data - makeMAP will do the rest.

GEO-REFERENCING

winAVL Station is a professional GPS/AVL tracking software specially designed for WAY iTX1200 AVL where the software has capabilities to use scanned raster maps, satellite images as well as vector maps and vector data. The geo-referencing of raster maps are done with pre-scanned .BMP files using FIKO's makeMAP software package that will generate .MAP files - a format specific to winAVL.

By using WAY iTX1200 as your GPS/GSM tracking device, you can have up to 28 hours of tracking without GSM coverage and once you're are within such coverage, the previous data may be downloaded via i.e. GPRS as the built in EDGE technology provides fast and reliable download speed up to 87,654.4 bits per second.

ITX1200 comes with ultra thin 550mA chargeable battery.

TECHNICAL SPECIFICATIONS

GSM - WAY iTX1200	GPS SiRF StarIII
Tri-Band GSM 900/1800/1900 MHz	Receiver 20 channel All-In-View
Tri-Band GSM 850/1800/1900 MHz	L1 1575.42 MHz C/A code 1.023 MHz
Group 3, class 2	Accuracy 10m
GPRS class 10 max. 85.6 kbps	EGNOS/WAAS accuracy 1 to 5m
Digital Phone Active indicator	Datum: WGS-84
2 x Alarm w/automated SMS	Snap start < 3 sec. average
Status callback via SMS	Hot start < 8 sec. average
28 hours GPS positioning	Warm start < 38 sec. average
100,000 NMEA records storage	Cold start < 45 sec. average
Compliant to GSM phase 2/2+	Altitude max 18,000m - 60,000 feet
Supply voltage range 5 to 26 VDC	Velocity max 515m/sec. - 1,000 Kts.
Speech mode (average) 260 mA	Protocols: NMEA-0183
GPRS class 10 (average) 450 mA	- SiRF binary (NMEA Standard)
Normal Operation -20°C to +70°C	Crystal oscillator (TCXO)

WAY iTX1200 is maybe the world smallest, most flexible and most compact AVL system available? With it's just 70 Grams or 2.47 ounces, it's defiantly light. It's easy to use and ready to go as soon as you have inserted your SIM, phone numbers and connected power.



ITX1200 AVL
3-BAND GSM-SMS-GPRS with GPS and AVL

www.gnss-tech.com - contacts@fikogroup.com

Thailand +66 53 852-954/5 :: Germany +49 7729-305250 :: France +33 384-565000 :: United Kingdom +49 870 831-9916