

# mazore

Trading Ltd

*distance under control*



## Locate-33

### LOCATING, REMOTE CONTROL, MONITORING: DISTANCE UNDER CONTROL – ALWAYS AND EVERYWHERE

**The locate-33** is the flagship of the our locate vehicle tracking devices.

**The locate-33** is a vehicle tracking unit based on the GPS satellite system and incorporating GSM / GPRS mobile data communication, reporting positions of vehicles and/or other moving objects in real time.

**The locate-33** was developed to transmit various business critical data like numbers of items, metering data, CAN bus data or status confirmation of vehicles or machines using add-on devices. The device provides the user with improved control and a high level of security vital to companies which are planning to optimize their costs of operations.

One of the highlights of the device is its CAN bus interface. Every modern vehicle has at least one CAN bus implemented which allows to retrieve various data from the engine. With the combination of **locate-33** and can-66 this data can be used to achieve a significant reduction of the consumption of gasoline.

Another advantage of the device is, that the device can read and write SD memory cards with up to 2GB memory. This allows to provide the application inside the device with a big amount of data as well as extensive logging of data which so far has been the domain of much more expensive car-pcs.



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Locate-33 allows to connect the display-56 which suites for multiple tasks:

- display and confirmation of reception of driving jobs
- display and confirmation of reception of messages for the driver
- status reports of the driver for the back office like traffic jam, accident, pause, waiting time etc.
- initiation of phone calls based on a given list of phone numbers the driver is allowed to call
- display of can bus data in order to continuously support the driver to reduce fuel consumption as good as possible



Advantages for your business can easily be achieved:

user specific configuration of the device allows to utilize locate-33 units fully integrated into the existing work-flow. This provides the user with more flexibility or even allows to eliminate up to now necessary work routines.

## **CONNECTORS**

- TYCO "Mate 'n' Lock connectors for
  - RS232 (service input)
  - power supply
  - 5 digital inputs
  - 4 digital outputs
  - 2 analog inputs
  - CAN-bus
  - RS485 (optional)
  - connector for 1-Wire sensors (e.g. driver-id, temperature sensor etc.)
- RJ45 connector for RS232 (2<sup>nd</sup> serial interface)
- SMA connector for GSM antenna (mobile radio)
- SMB connector for GPS antenna (satellite positioning)
- NOKIA compatible connector for a headset
- Integrated standard 3V SIM card reader
- Integrated read/write slot for standard SD memory cards

## Highlights

- Easy development of user-specific applications
- DTMF signaling recognition
- Announcement of information in natural human speech
- Choice of communication - by voice, data call, GPRS and SMS
- GPRS – the most cost-effective dedicated line into the Internet – is fully supported
- Data, application software, firmware and announcements can be individually modified, by choice over the built-in serial interface or by AI (air interface).  
To transmit data over AI, all you need is either a simple modem connected to a PC or a subscription to the M2M-commserver.
- the can bus interface allows to read data from the engine of the vehicle for further examination with can-66, the highly sophisticated analysis tool for maximum fuel usage reduction
- the integrated SD-card reader allows to store tremendous amounts of data (up to 2GB)
- highly developed power saving routines allow a reduction of power consumption down to 300uA @ 12 volts.
- An integrated development environment (IDE) for Windows PCs with an extensive and integrated simulator, which allows to develop applications in a BASIC/ PASCAL-type programming language without the use of an additional device, is shipped with the device.
- Many applications support the device:
  - Fleet-controlweb - the web based fleet management application for professionals
  - MP-route, the integration of VTUs and the mapping application Microsoft MapPoint
  - FT-route, the integration of VTUs and the mapping application FUGAWI Tracker allows to use your own maps and even scanned paper maps for vehicle tracking and tracing
  - DGPS-enabler - the solution for all companies, that need especially accurate GPS information
  - Inmarsat-T and inmarsat-D:  
satellite communication for areas without GSM coverage
- Compact form factor: 13.1 cm x 3.1 cm x 9,0 cm

## **FEATURES LIST**

- 1.088 Kbyte RAM
- 2.304 Kbyte of flash memory for applications and voice messages
- 512 Kbyte of flash memory for data logging (approx. 40.000 GPS positions, extendable up to 8 Mbyte)
- 8Kbyte of FRAM for quick access to flash memory with an unlimited number of write cycles
- CAN 2.0B interface with hardware filtering and support of various communication speeds; J1939 and FMS support
- Standard SD-card reader/writer with PC compatible FAT file system
- Standard SIM card reader, 3 Volts
- Highly developed power saving modes
- RS232 interface with PC connector (service input), 1,200 bps – 57,600 bps
- RS232 connector, 1,200 bps – 57,600 bps with full set of control signals
- Power supply surveillance
- Voice announcements (max. 130 seconds)
- Battery backed real-time clock
- Internal Li-Ion battery (1.8 Ah) with intelligent charging circuit
- Piezo buzzer for auditable announcements
- 3 programmable light-emitting diodes, each with 4 possible states (red/green/orange/off) plus one system LED
- 2 micro switches which can be accessed from outside the box for system configuration
- integrated shock sensor with variable sensitivity
- audio in/out of the GSM module possible with NOKIA compatible headset
- OnBoard temperature sensor
- Quad band GSM module for voice, data, SMS, GPRS etc. (850/900/1800/1900 MHz)
- onboard 12 channel GPS receiver with very low power consumption
- DTMF touch tone recognition
- 5 galvanic-separated digital inputs (change is recognized even in low power mode (300uA))
- 4 relay outputs (1A, 30 Volts)
- 2 analog inputs (0..5 Volts)
- RS485 connector for up to 32 simultaneously connected devices, 110 bps – 115,000 bps (optional)
- Power supply (9 – 36 Volts DC) monitor available through user-application program
- Possible simultaneous execution of 16 user-application programs with 2 different priorities
- Software updates over either AI (air interface) or serial interface
- Approvals: E1, CE, EN-50081-1 Emission, EN-61000-6-2 Immunity



# Locate-33

## **SOFTWARE DEVELOPMENT OF USER SPECIFIC APPLICATIONS**

The locate-33 remote control unit can unusually fast and easy be adapted to specific requirements. All that is needed is a normal PC that can be simultaneously used as a simulator for all functions such as GSM, SMS, I/Os, phone calls, etc.

Complicated, time consuming, user-specific application test preparations are unnecessary - if the program can run on the computer, then it will work on a locate-33 unit as well. A source code editor with syntax-sensitive color representation, and amongst others a compiler, are at your disposal for software development purposes. The locate supports voice recordings over a speech recognition platform, using existing recordings is no problem at all.

Voice recordings over a speech recognition platform supports the locate, using existing recordings is no problem at all.

## **Products**

<b>Bezeichnung</b>	<b>Art.-Nr.</b>	<b>Artikel-Beschreibung</b>	<b>Netto-Preis zzgl. MwSt.</b>
Locate-33	LOC-06-33	Basic module, user-programmable includes integrated development environment and full feature simulator powerful application is included	989,00 Euro
Antenna-15	ANT-02-15	Combined GSM/GPS window antenna with 3m connection cable	69,90 Euro
Antenna-16	ANT-02-16	Combined GSM/GPS roof antenna with 3m connection cable	79,90 Euro
Accessory-21	ZUB-02-21	Serial cable 2m PC ↔ locate for the transmission of data, programs and firmware between a PC and locate-28	28,90 Euro
Accessory-24	ZUB-02-24	Illuminated emergency call push-button 8.1mm with light bulb	11,90 Euro
Accessory-26	ZUB-02-26	Plug-in power supply unit 12 Volts for the operation of locate-33 with 220 Volt alternate current	39,90 Euro
Accessory-30	ZUB-02-30	Radio-Remote-Control for activating and deactivating the system	105,00 Euro
Accessory-33	ZUB-02-33	Switch for distinction of private and business rides incl. cable	39,90 Euro
Locate-33	LOC-06-33	Basic module, user-programmable includes integrated development environment and full feature simulator powerful application is included	19,90 Euro