

TRACK pro

First to know the coordinates

Benefon Track Pro is a state-of-the-art communication device with a combination of full-feature Dual Band GSM Phone, high-performance GPS receiver and Mobile Phone Telematics Protocol (MPTP). With MPTP and BeneGuard – a unique, easily programmable multifunction button – Benefon Track Pro can be configured for several different purposes, from easy-to-use safety device to mobile unit for resource management applications.

First phone for locating and directing people

Benefon Track Pro is the world's first portable GSM phone that has hybrid positioning capabilities. Thanks to this, it can be used both to locate the phone users and to supervise and direct them to the desired positions. This way Benefon Track Pro increases the safety of the people and gives totally new opportunities for personnel management.

Fast help by pushing one button

Benefon Track Pro is a must for solitary workers and people at risk. With the help of MPTP, Benefon Track can easily be implemented for all emergency centers that can use voice and SMS for telematics. The center can be contacted in a second by pressing the BeneGuard button, either sending an SOS message or opening a voice connection to a predefined emergency number. All SOS messages show location, time, speed, direction and battery status.

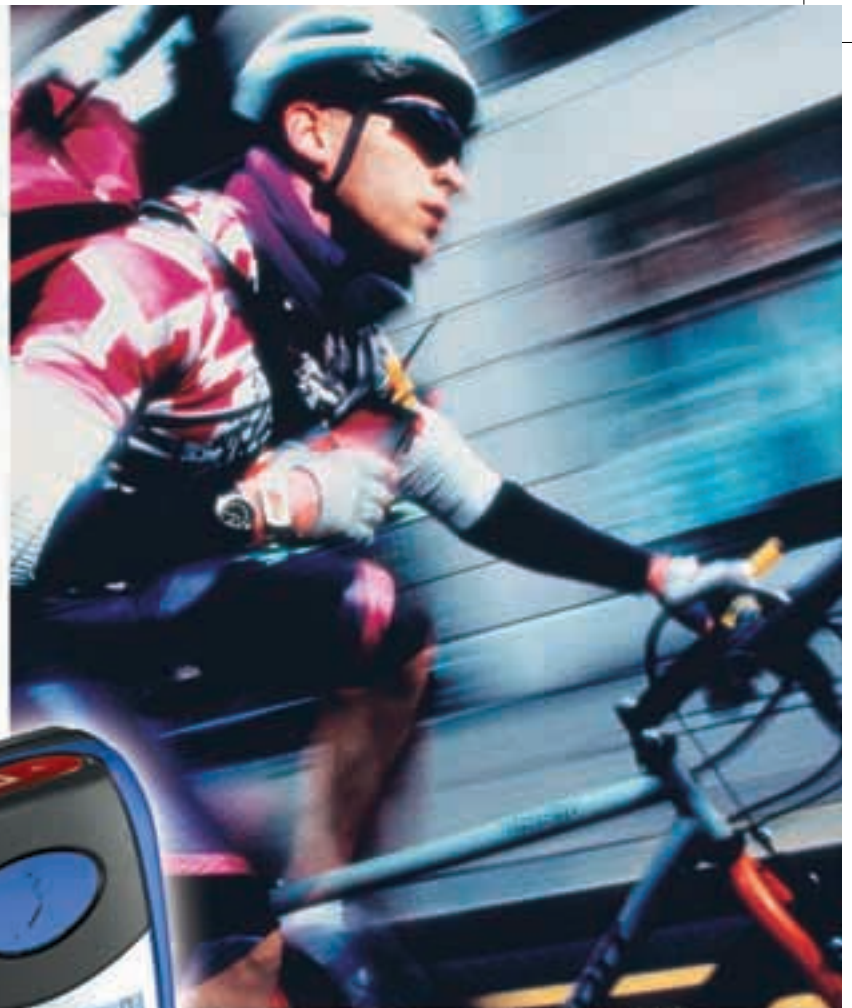
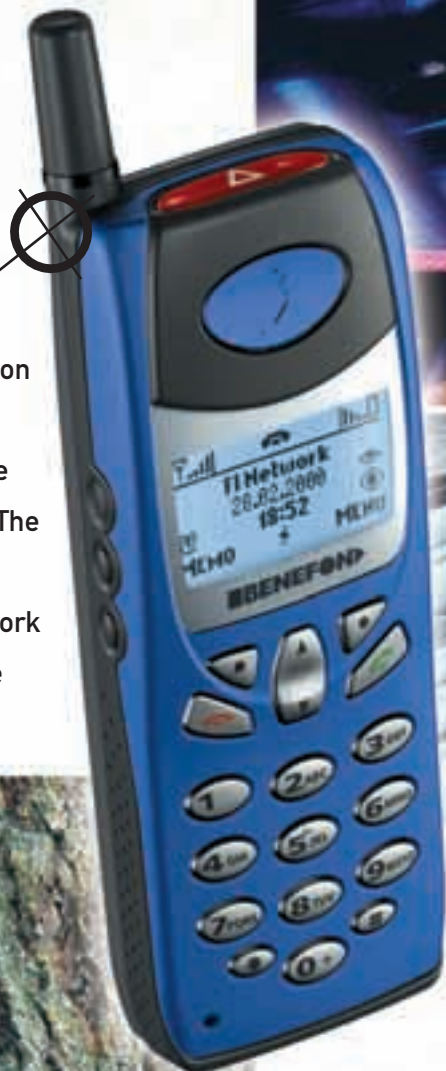


New possibilities for resource management

With communication and positioning devices, telematic capabilities and full portability included in the same package, Benefon Track Pro makes most expensive resource management unnecessary. From now on, not only fleet but personnel such as service personnel, police and couriers can be managed with the same device.

Tough easy-to-use tool in pocket-size

Shock and water resistant Benefon Track Pro is designed for heavy use. Its' practical design and elastomer protection on all sides give a good, firm grip, and the large keys can be used even with gloves on. The remarkable speaker phone system releases both hands for work and enables others to listen in on the conversation.



Full features for modern communication

As an advanced GSM phone, Benefon Track Pro comes with a phone book, calendar, appointment manager and alarm clock. It also enables access to e-mail and the Web via a PC with 14.4 kbps built-in GSM data and fax modem. By special order, Benefon Track Pro is also available as a co-branded version for the user company or organization.

Benefon Track Pro 1.1

GSM+GPS Professional Telematics Phone

Technical Data

CONSTRUCTION

- Glass fiber reinforced back cover
- Elastomer protected edges
- Splash proof
- Shock resistant

DIMENSIONS

- Weight: 185 g
- Length: 129 mm
- Width: 49 mm
- Thickness: 25 mm
- Volume: 132 cc³

WIRELESS NETWORK STANDARD

- GSM 900, GSM 1800, GSM 900/1800 Dual Band networks or GSM 900 and GSM 1900****

POSITIONING TECHNOLOGY

- Global Positioning System (GPS)
- Twelve-parallel-channel receiver continuously tracks and uses up to 12 satellites
- GSM network based positioning system (Network operator dependent)

DISPLAY

- Full graphics high-contrast screen
- Resolution 100 x 48 pixels
- Dynamic, user-selectable font size
- Up to 5 lines of text
- Graphical status indication and icons
- Graphical icons and scroll bars

KEYPAD AND EDITING

- Illumination
- Automatic and manual key lock
- ITU-T European Keypad printing
- Full screen cursor editor
- Clear last character or whole display
- International access (+) button
- Any-key answering

PERSONAL ORGANIZER

- Clock and date
- Alarm clock with snooze
- Calendar
- Calendar appointment manager, with reminders
- Phone power-on and off timers

OTHER PHONE FEATURES

- Vibrating Alert
- Calculator
- Downloadable ringing melodies
- Precision GSM antenna RF connector for optimal performance and changing to optional antennas

CALL MANAGEMENT

- One-touch dialling
- Quick dialling
- Last or recent-numbers redial
- Multiparty calls
- Call waiting, call hold
- Call divert
- Calling number or name identification
- Caller number identification control
- Dialling prefix
- DTMF transmission
- Automatic and manual network selection
- Automatic answer with headset and car kit

BATTERIES

| Type | Phone Weight | Stand-by op. time* | GSM Talk time | GPS operating time** Pro NT | Charging time |
|----------------------|--------------|--------------------|-------------------|-----------------------------|---------------|
| Lithium ion 900 mAh | 164 g | 55 - 150 h | 2 h 30 min - 8 h | 12 - 125 h | 2 h |
| Lithium ion 1200 mAh | 185 g | 72 - 200 h | 3 h 30 min - 10 h | 17 - 170 h | 3 h |
| Lithium ion 1700 mAh | 183 g | 100 - 280 h | 4 h 30 min - 14 h | 24 - 240 h | 4 h |

* Operating times can vary substantially depending on distance to base station, SIM card, temperature, network settings, network usage and GPS receiver operating mode.

** GPS operating time can vary substantially depending on power saving modes, satellite coverage and atmospheric conditions

*** requires third party application

**** All models are not necessary available in all areas. Please check with Benefon representative.



Available in



PHONE BOOK AND MEMORY FUNCTIONS

- Supports up to 255 phone book entries on the SIM card
- Various ways to scroll or search the phone book memory
- Dialed calls list with time and date stamp
- Answered calls list with time and date stamp and calling number or name identification
- Unanswered calls list with time and date stamp and calling number or name identification
- Access phone book for sending SMS
- Pick SMS sender's number for phone book
- Show sender number or name (if stored in SIM) as an SMS header

SHORT MESSAGES SERVICE (SMS)

- Send and receive text messages of up to 160 characters (standard) or 640 characters (if supported by network)
- Time and date stamp for received messages
- Answer message
- Forward message
- Pick sender name or number from message text
- Call SMS sender

SECURITY AND CALL COUNTERS

- Call barring
- Notification of charges and charge limits
- Call Timers: last call, outgoing calls, received calls and all calls
- Fixed dialling numbers
- Phone code, PIN1, PIN2
- Security code for telematics & GPS settings

TONE CONTROL

- 40 different ringing tones and melodies
- Downloadable and user-composable ringing melodies using BeneWin Pro
- Ringing tone levels, including silent mode
- Ascending alert
- Keypad tone levels
- Several SMS alert tones and tone levels
- Quick alert settings for adapting to voice environment
- Tone indications for telematics status messages etc.

GSM SYSTEM-SPECIFIC FUNCTIONS

- GSM Phase 2+ signalling
- Enhanced Full Rate speech codec
- Automatic power save if no network

SERVICE PROVIDER-SPECIFIC FUNCTIONS

- SIM application toolkit
- Pre-paid SIM support
- Network lock

GSM DATA

- Up to 14.4 kbps circuit switched GSM data and fax
- Integrated modem, data cable directly to PC serial port
- Data protocols: V.21, V.22, V.23, V.22bis, V.36ter, V.32, V.34, V.110 (ISDN), X.31 flag stuffing, V.42bis
- AT commands interface

GPS FEATURES

- Assisted GPS support (SMS point-to-point)
- GPS Power management
- 12 channel, high-performance GPS receiver
- Integrated high-gain flip antenna
- Position coordinates display
- Connector for external active antenna
- External NMEA 0183 interface

TELEMATICS FEATURES

- Benefon Mobile Phone Telematics Protocol (MPTP), a sophisticated set of Telematic commands
- Location commands: position, history
- Area tracking commands
- Navigation & Route function
- Mobile Group function ***
- Remote configuration
- Emergency commands
- Status commands

SAFETY FEATURES

- Easy use BeneGuard button for emergency/status messages
- One touch emergency call and/or SMS-message triggering to predefined number
- Status message sending with Benefon Mobile Phone Telematics Protocol (MPTP)
- Emergency 112 call without SIM card or while phone is locked
- Loud or silent emergency alert
- Condition Check timer

ACCESSORIES

- Fast mains charger
- Cigarette lighter charger
- Hands-free (HF) headset kit
- Digital, full-duplex, plug-in HF car kit
- Vehicle or boat cradle
- Bike mounting brace
- BeneWin Pro software and data cable
- External active GPS antenna
- Cross-country antenna
- Car Kit
- Carrying holster (case)
- NMEA Data Cable

BENEWIN PRO

- Data cable from phone to serial port of PC
- Up to 14.4 kbps data and fax support through
- AT commands
- BeneWin Pro PC software:
 - Edit and back up phone book memory
 - Send and receive SMS messages by using a PC keyboard
 - Compose and change ringing melodies with BeneWin Maestro
 - Manage phone settings
 - Manage telematics settings

Benefon® is a registered trademark of Benefon Oyj. Benefon Track GSM+GPS is made in Finland. Copyright© 2001 Benefon Oyj, Finland. All rights reserved. Specifications are subject to change without notice. Benefon Oyj is an ISO 9001-certified manufacturer and a TQM company.

Benefon Oyj
P.O. Box 84
FIN-24101 Salo, Finland
Tel. +358 2 77 400
Fax +358 2 733 2633

BENEFON  **-COM**