

BENEFON

Personal
Navigation
Phone

Benefon

ESC!

GSM+GPS

Size 1 : 1



Benefon Esc! Personal Navigation Phone is a revolutionary communication instrument you'll never get lost with. It guides you and shows all necessary information for getting from one place to another — no matter if you're in the wilds or in the city, inside or outside GSM coverage. Benefon Esc! is equipped with a Global Positioning System (GPS) navigator and maps, which can be used in the mountains, on the sea, or in the city.

Benefon Esc! is also a high-class GSM Dual Band phone with brilliant features and advanced technology. The GSM radio is engineered to strict Benefon standards and — to resume connection as soon as possible — can be equipped with an optional cross-country antenna.

Benefon Esc! loves the outdoors as much as you do: it is water and shock resistant, and its casing is reinforced with stainless steel. And, despite being the complete survival pack of the contemporary nomad, the Benefon Esc! is extremely small and light-weight.

Advanced Dual Band GSM phone

GSM900/1800, unparalleled reception and RF technology, optional high-gain cross-country antenna, vibrating alert, Enhanced Full Rate (EFR) for optimal voice quality and up to ten days of stand-by operating time on rechargeable, light-weight, lithium-ion batteries.

Navigation

Speed and heading, average and top speed, trip odometer, waypoints and routes, direction, ETA and distance to waypoint. Supports NMEA 0183 interface.



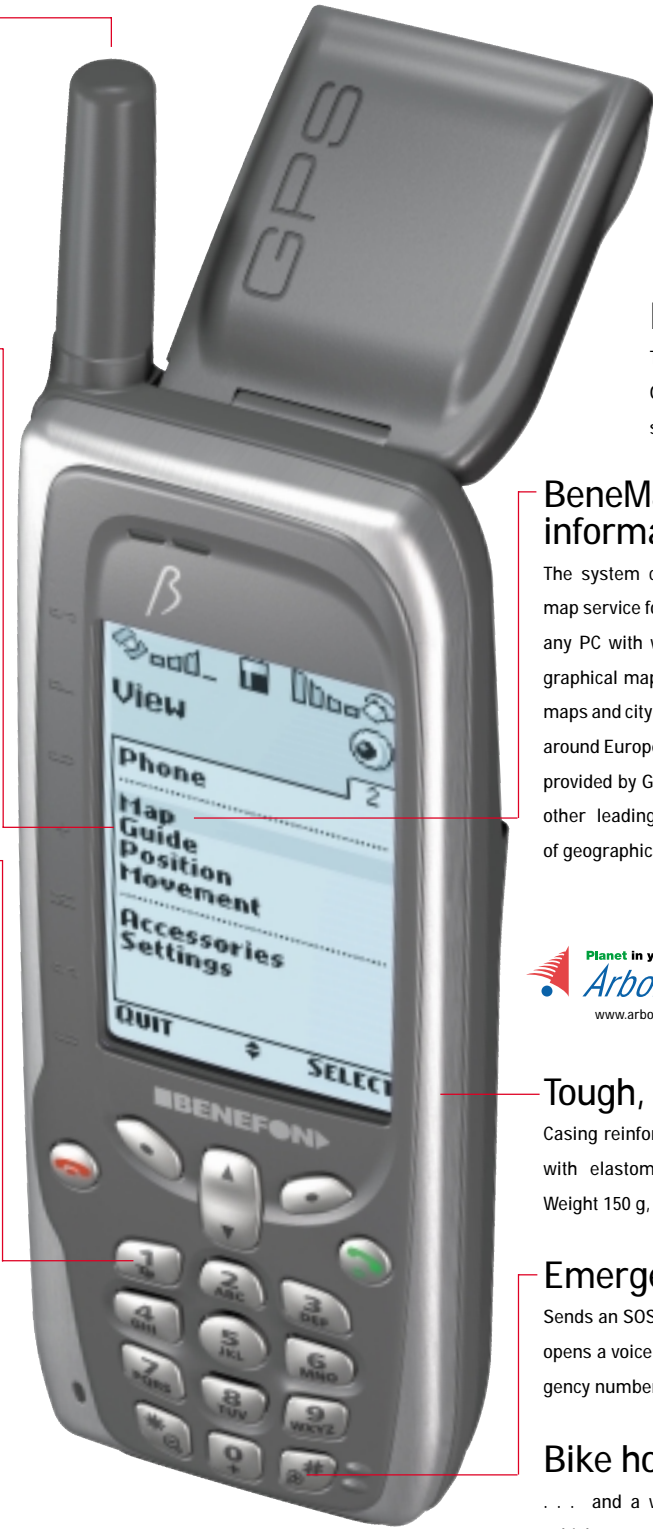
Personal organiser and communications centre

To let you roam freely, the Benefon Esc! comes complete with a phone book, calendar, appointment manager, and alarm clock with snooze. It also enables access to e-mail and the web via a PC with a 14.4 kbps built-in GSM data and fax modem. Features predictive T9 text input for fast and easy text messages and notes.



Friend Find

New, exclusive Personal Navigation Phone feature. Tracks other users of Benefon Esc!, locates them on map (e.g. hunting, yachting), and can even guide you to them (e.g. rock concert, residential address).



Positioning

Twelve-channel high-performance GPS receiver. Coordinates, time and satellite status.

BeneMaps geographic information system

The system connects to the Arbonaut® mobile map service for easy downloading of maps, using any PC with web browser. Touring maps, topographical maps, nautical maps and city maps from around Europe. Maps are provided by Geodata and other leading suppliers of geographical data.



Tough, yet small

Casing reinforced with stainless steel, protected with elastomere. Water and shock resistant. Weight 150 g, length 129 mm, thickness 23 mm.

Emergency button

Sends an SOS message with your location, and opens a voice connection to a predefined emergency number.

Bike holder

... and a wide range of other personal and vehicle accessories.

Whenever
you want

to go back
to nature,

we make

sure you'll
find your
way back.



Benefon Esc!

GSM+GPS Personal Navigation Phone

Technical Data

CONSTRUCTION

Stainless steel structure
Water resistant
Shock resistant

DIMENSIONS

Weight: 150 g
Length: 129 mm
Width: 49 mm
Thickness: 23 mm
Volume: 138 cc

WIRELESS NETWORK STANDARD

GSM900, GSM1800 and GSM900/1800 MHz
Dual Band networks

POSITIONING TECHNOLOGY

Global Positioning System (GPS)
Twelve-parallel-channel receiver
continuously tracks and uses up to 12 satellites

DISPLAY

Illuminated high-contrast, full-graphics, gray scale display
Resolution 100 x 160 pixels
Dynamic, user-selectable font size
Up to 20 rows of text
Graphical indication and icons
Graphical menus
Maps

KEYPAD

Full-screen editing and menu navigation with navigation buttons
Automatic and manual key lock
International access (+) button
One-touch T9 button
Any-key answering
Illumination

ORGANISER

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

OTHER PHONE FEATURES

Predictive T9* text input for short messages and phone book
Vibrating alert
Calculator with currency converter
Three games for entertainment
Downloadable ringing melodies
Precision GSM antenna RF connector for optimal performance

GPS FEATURES

12 channel, high-performance GPS receiver
Integrated high-gain flip antenna
Connector for external active antenna
External NMEA 0183 interface

NAVIGATION FEATURES

Position coordinates
Speed (current, average, maximum)
Heading
Waypoints
Routes
Track log
Trip odometer
Distance measurement
Sending and receiving position using SMS



BENEMAPS GEOGRAPHIC INFORMATION SYSTEM

Download maps to the phone through Arbonaut® mobile map service, using any PC with Internet browser
Touring maps
City maps
Topographical maps
Nautical maps

NAVIGATION PHONE FEATURES

Friend Find: track and find another Benefon Esc! navigation phone
Emergency button: in case of emergency, an SOS message with your location is sent, and a voice connection is opened to a predefined number
Position tracking to an external GIS server

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

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
Dialled calls (15) list with time and date stamp
Answered calls (10) list with time and date stamp and calling number or name identification
Unanswered calls (10) 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

SHORT MESSAGES SERVICE (SMS)

Predictive T9* text input
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
Message delivery report
Call SMS sender
Cell Broadcast

SECURITY AND CALL COUNTERS

Emergency 112 call without SIM card or while phone is locked
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
Automatic/manual key lock

TONE CONTROL

40 different ringing tones and melodies
Downloadable and user-composable ringing melodies
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

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
3V/5V 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

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 with Maps software and data cable
External active GPS antenna
Cross-country antenna
Carrying holster (case)

BENEWIN PRO WITH MAPS

Data cable from phone to serial port of PC
Support for BeneMaps geographic information system
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

Benefon® is a registered trademark of Benefon Oyj.
Benefon Esc! GSM+GPS is made in Finland.
Copyright© 1999 Benefon Oyj, Finland. All rights reserved.
Specifications are subject to change without notice.
Benefon Oyj is an ISO 9001-certified manufacturer and a TOM company.
T9 is a registered trademark of Tegic Communications.
Arbonaut is a registered trademark of Oy Arboreal Ltd.

BATTERIES

Type	Phone weight	Stand-by operating time	Talk time	Charging time
Lithium ion 700 mAh	150 g	Up to 140 h*	Up to 6 h	2 h
Lithium ion 1200 mAh	169 g	Up to 240 h*	Up to 10 h	3 h

* Operating times can vary substantially depending on distance to base station, SIM card, temperature, network settings and network usage.
Continuous GPS usage also reduces stand-by operating time.

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

