

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.

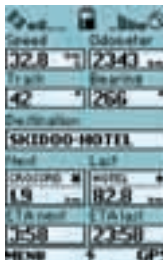
Benefon Esc! loves the outdoors as much as you do: it is splash-proof, and its casing is reinforced with stainless steel. And, despite being the complete survival pack of the contemporary nomad, the Benefon Esc! is small and light-weight.

## 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 seven 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.



## Genimap® Mobile Maps service

The system connects to the Genimap® Mobile Maps service for easy downloading of maps using any PC with web browser. Road maps, city maps, nautical charts and topographical maps from around Europe. Choice of free maps included with Esc!. Maps are provided by Genimap and other leading suppliers of geographical data.



## 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.



## Tough, yet small

Casing reinforced with stainless steel, protected with elastomere. Splash-proof. Length 129 mm, thickness 23 mm.

## Emergency button

Sends up to five SOS messages with your location, and opens a voice connection to a predefined emergency number.

## New location services

Check [www.benefon.com](http://www.benefon.com) periodically for tips about new location services for Benefon Esc!.

Benefon Esc! utilizes Mobile Phone Telematics Protocol (MPTP) and Software Development Kit (SDK) which enable service providers and integrators to build and provide new location based services for consumers and businesses. MPTP facilitates sending of location, tracking and route messages between service centers and MPTP enabled terminals by using SMS.

For further information please visit Benefon Partners Area at [www.benefon.com](http://www.benefon.com), or check out Arbonaut Geo-Messaging Suite at [www.arbonaut.com](http://www.arbonaut.com).



## Bike holder

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



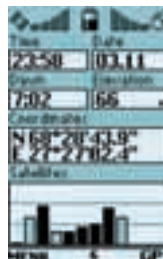
## Friend Find

New, exclusive Personal Navigation Phone feature. Tracks other users of Benefon Esc!, locates them on map (e.g. hiking, 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.



## Helpdesk

Just select Helpdesk from the GSM Menu, and an expert helpdesk advisor will call you in a few minutes.

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  
Splash-proof (IPX4)

#### DIMENSIONS

Weight: 177 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  
Up to 15 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

Notebook  
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  
Seven games for entertainment  
Precision GSM antenna RF connector for optimal performance  
Screen saver

#### GPS FEATURES

12 channel, high-performance GPS receiver  
Integrated high-gain flip antenna  
Connector for external active antenna  
External NMEA 0183 interface  
Power saving modes  
Grids and datums

#### NAVIGATION FEATURES

Position coordinates  
Speed (current, average, maximum)  
Heading  
Waypoints  
Routes  
Trace  
Trip odometer  
Distance measurement  
Sending and receiving position using SMS  
Guide/GPS compass

#### MOBILE MAPS

Download maps to the phone map memory through Genimap® Mobile Maps service, using any PC with Internet browser



Colours



Burn red



Sail blue



Discover green



Black

Road maps  
City maps  
Topographical maps  
Nautical charts

#### NAVIGATION PHONE FEATURES

Friend Find: track and find another Benefon Esc! navigation phone  
Emergency button: in case of emergency, up to five SOS messages with your location is sent, and a voice connection is opened to a predefined number  
Position tracking to an external service center  
Support for MPTP

#### 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  
Dialled 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, waypoints, routes, Friend Find messages  
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)  
Time and date stamp for received messages  
Answer message  
Forward message  
Pick sender name or number or coordinates from message text  
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, total 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 using BeneWin Pro  
Ringing tone levels, including silent mode  
Ascending alert  
Keypad tone levels

Several 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  
Possibility to switch GSM on or off

#### 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

#### BENEWIN PRO

Included in sales package  
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  
- Manage GSM and GPS settings  
- Manage waypoints and routes

#### 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  
NMEA 0183 cable  
External active GPS antenna  
Cross-country antenna  
Trendline carrying case  
Outdoors carrying case

#### HELPDESK

Assist in using the phone and maps free of charge (usage limitations)

#### MOBILE PHONE TELEMATICS PROTOCOL (MPTP)

MPTP enables:  
- Position request  
- Route request  
- Send/receive location  
- Emergency call  
- Friend Find

#### SOFTWARE DEVELOPMENT KIT (SDK)

SDK enables providing mobile maps

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Arbonaut is a registered trademark of Oy Arbonaut Ltd.  
Genimap® is a registered trademark of Genimap Oy.

#### BATTERIES

Type	Phone weight	GSM standby operating time	GSM talk time	GPS operating time	Charging time
Standard 900 mAh Li-ion battery	177 g	55-155 h*	2 h 30 min - 8 h	12-125 h**	2 h
Power battery 1200 mAh Li-ion	198 g	72-200 h*	3 h 30 min - 10 h	17-170 h**	3 h

\* GSM operating times can vary substantially depending on distance to base station, SIM card, temperature, network settings and network usage.

\*\* GPS operating times can vary substantially depending on powersaving modes, satellite coverage and atmospheric conditions.

Usage of phone functions, navigation functions and backlight affects operating times.



Foresee and Be

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