



Personal Navigation Phone

ESC!

GSM+GPS

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)

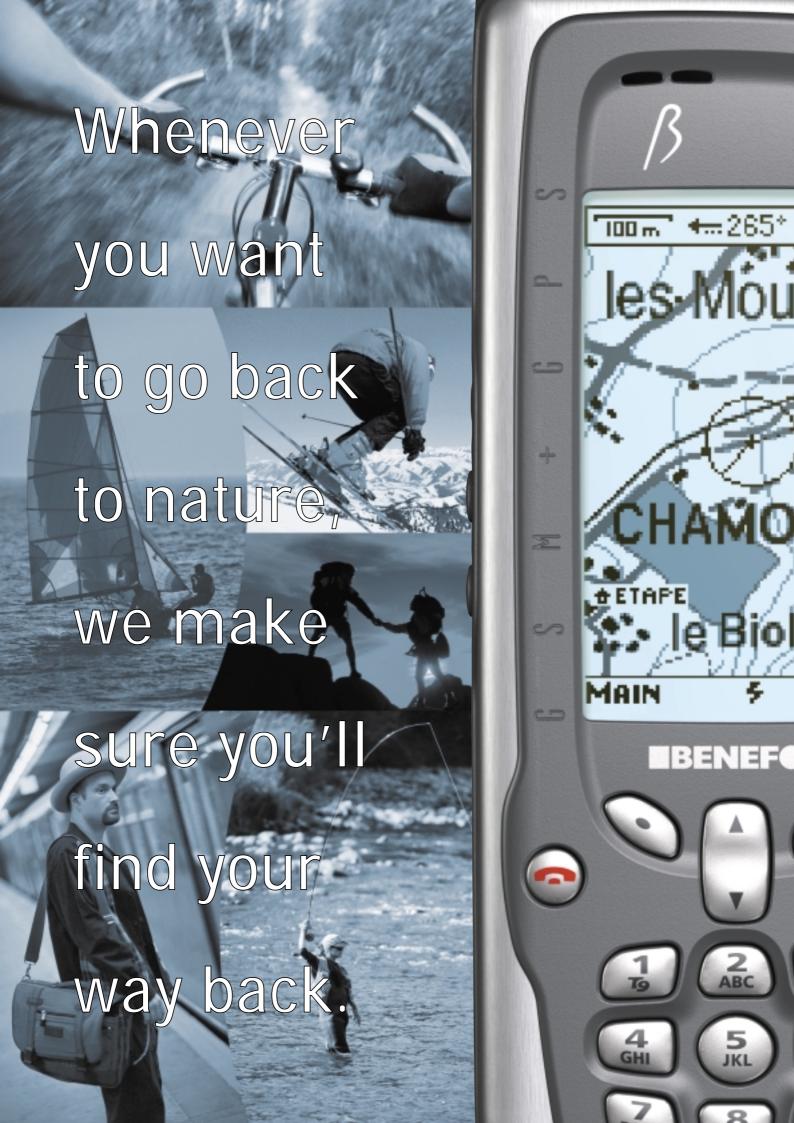


gency number.

Bike holder

vehicle accessories

and a wide range of other personal and



## Benefon Esc! GSM+GPS Personal Navigation Phone Technical Data

#### CONSTRUCTION

Stainless steel structure Water resistant Shock resistant

#### **DIMENSIONS**

Weiaht: Length: Width: 129 mm 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

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**

Alarm clock with snooze 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**

Speed (current, average, maximum) 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

#### 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

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T9 is a registered trademark of Tegic Communications.

Arbonaut is a registered trademark of Oy Arboreal Ltd.

#### BATTERIES

Туре	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

Automatic answer with headset and car kit

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<sup>\*</sup> 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