



GSM 900/1800  
Dual Band

# Benefon Twin



Size 1 : 1



## Create your personal twin-colour

Create your own personal twin-colour phone by combining user-changeable display masks with Benefon Twin's several colour options.



## Location-based services support

The revolutionary GSM locationing system applications include, for example, personal security, fleet and staff management, outdoor recreation and value-added services like yellow pages or traffic information.



## Small, light and handy

Excellent looks are not the only thing Benefon Twin's design stands for – the phone fits your hand like a glove and goes unnoticed in your pocket. It weighs 105 g and is 112 mm long.



## Predictive T9 text input

T9 reads your mind – one push per letter is sufficient for writing short messages and memos. The comprehensive, built-in dictionary is available in several languages.



## Quick GSM data and fax

Benefon Twin comes standard with a built-in 14.4 kbps GSM data and fax modem.



## Personal organiser

Includes a calendar, appointment manager, reminders, timers, clock, calculator and alarm clock with snooze for organising your everyday life.



## Unparalleled performance

Benefon Twin's high performance antenna with precision RF connector optimises radio performance for the widest possible coverage. Stand-by time of over 8 days, or talk-time of up to 8,5 hours.



## Hands-free while walking, hands-free while driving

Instantly installable plug-in car kit can be moved from one vehicle to another. Full duplex echo cancellation through digital signal processing for optimal voice quality while driving.



Create your own personal twin-colour combination. Benefon Twin's several colour options combined with user-changeable display masks with individual colours and graphics help you make a truly unique communication instrument.

## Benefon Twin Technical Data

### NETWORK STANDARD

GSM900, GSM1800 and GSM900/1800 MHz Dual Band networks

### DIMENSIONS

Weight: 105 g  
Length: 112 mm  
Width: 49 mm  
Thickness: 27 mm  
(all battery options)  
Volume: 115 cc  
(all battery options)

### DISPLAY

Full-graphics high-contrast screen  
Electro-luminescent lighting  
Resolution 100 x 48 pixels  
Dynamic & user-selectable font size  
Up to 5 lines of text  
Indicators: field strength, battery status, charging, time, date, timers, alarm, key-lock, silent, message, call divert and roaming  
Graphical icons and scroll bars

### KEYPAD AND EDITING

Automatic and manual key lock  
ITU-T European Keypad printing  
Full-screen cursor editor  
Clear last character or whole display  
International access (+) function  
One-touch T9 button  
Any-key answering

### PERSONAL ORGANISER

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

### OTHER PHONE FEATURES

User-changeable display masks, with individual colours and graphics  
Predictive T9<sup>®</sup> text input for short messages, notes and phone book

Calculator  
Two games for entertainment  
Personalised ringing melodies  
Precision RF antenna 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

### 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 (5) list with time and date stamp  
Answered calls (5) list with time and date stamp and calling number or name identification  
Unanswered calls (5) 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)

Predictive T9<sup>®</sup> 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 or while phone is locked  
Call barring  
Notification of charges and charge limits  
Call Timers: last call and all calls  
Fixed dialling numbers  
Phone code  
PIN1, PIN2

### TONE CONTROL

40 different ringing tones and melodies  
Downloadable ringing melodies using BeneWin Pro  
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 (3 user-defined settings)

### 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  
Location-based services

### GSM DATA

Up to 14.4 kbps circuit switched GSM data and fax  
Integrated modem, data cable directly to PC serial port  
Data protocols: V21, V22, V23, V22bis, V36ter, V32, V34, V110 (ISDN), X.31 flag stuffing, V42bis AT commands interface

### ACCESSORIES

Standard mains charger  
Fast mains charger  
Cigarette lighter charger  
Portable hands-free (HF) kit  
Digital, full duplex, plug-in HF car kit  
Car cradle  
BeneWin Pro Pack software & data cable  
Cross-country antenna  
Belt clip  
Carrying holster (case)  
User-changeable display masks

### BENEWIN PRO PACK

Data cable from phone to the serial port of PC (standard)  
Up to 14.4 kbps data and fax support through AT commands  
BeneWin 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<sup>®</sup> is a registered trademark of Benefon Oyj. Benefon Twin GSM 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 TQM company. T9 is a registered trademark of Tegic Communications.

### BATTERIES

Type	Phone weight	Stand-by operating time	Talk time	Charging time (fast charger/standard charger)
Lithium ion 650 mAh	105 g	Up to 120 h	Up to 5 h 20 min	2 h / 4 h
Lithium ion 1100 mAh	124 g	Up to 200 h	Up to 9 h	3 h / 6 h
NiMH 750 mAh	128 g	Up to 125 h	Up to 6 h 15 min	1 h 15 min / 4 h

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

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