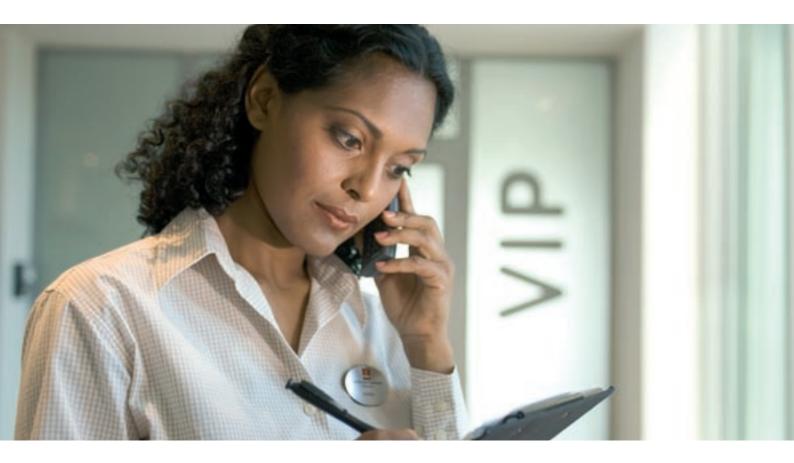# MAKING CORDLESS WORK FOR YOU

The one fact the entire business world will agree on is that time is ever critical. This makes constant accessibility very crucial to operations. At the same time, each enterprise is as unique as the manifold demands on the cordless communication that will support it.

Ericsson has pioneered the development of communication devices that will support a spectrum of working environments. Each telephone, together with its accessories has been designed and constructed to work as a well-oiled solution to individual needs.

That is why our cordless solutions have the reputation of enabling people to be in full control of their time and their environment, and enterprises to be well connected as a tight, well-informed network that is ready and available to handle clients and emerging situations effectively and speedily. Anytime and anywhere.

ERICSSON ≋

TAKING YOU FORWARD

Cordless Telephones

Equipped with full business functionality for high efficiency

"I work better because cordless works better for me. I like being in control of my time and my duties to my clients and colleagues."

We have as wide a range of phones as you have needs. All our phones are equipped with business-class functions like a comfortable menu interface, easy-to-read display, quick access volume keys, extensive phonebook, calling line identity and message waiting indication. You can be sure there is a phone that has been clearly designed and constructed to be the optimal solution for your unique needs – be it within the sophisticated walls of an office or at a rugged oil-refinery.

DT190 cordless phone

An entry level phone for your convenience

Ericsson's DT190 is the perfect choice for the busy user that need a phone offering mobility in the small or medium offices. Ericsson's DT190 provides basic features and full mobility in the workplace at an attractive price.

A convenient phone

- Phone book that can contain up to 20 numbers
- Redial of the 5 last incoming/ outgoing calls
- Missed call list of the last 5 missed calls
- Key lock preventing unwanted calling
- Personalized settings such as click sound, ringer tone, volume.
- CLIP – Calling Line Identification Presentation

Languages

9 languages are supported in the handsets: English, Dutch, German, French, Swedish, Finnish, Spanish, Italian and Norwegian.

Desk charger

Each phone package contains a handset, desk charger, power adapter, battery and battery door.

There are five versions available;

DT190 cordless phone with charger set for EU (240V)

DT190 cordless phone with charger set for EU (110V)

DT190 cordless phone with charger set for UK (240V)

Technical requirements

The DT190 cordless phone is designed indoor usage and not for for outdoor or extremely heavy use or extreme climates. The DT190 should not be used in an environment where intrinsically safe devices are required.

The DT190 cordless phone is DECT-GAP compliant and supports Ericsson's PBX systems; Business Phone and MD Evolution.

The handset cannot be used on existing A/B protocol systems, MD110 and MX-One™.

The DT190 cordless phone has not been tested on other vendor systems.

Functionality of the DT190 cordless phone on other vendor systems cannot be guaranteed.

DT292 cordless phone

Basic features, maximum mobility

Maximum productivity requires having your people in the right place at the right time. Reachability no matter where you are is the key to successful and efficient business. The DT292 combines outstanding design with supreme sound quality. The user-friendly menu makes accessing the wide range of features simple and straightforward.

Ericsson's DT292 provides basic features and full mobility in the workplace at an attractive price. The DT292 combines outstanding design with supreme sound quality. The user-friendly menu makes accessing the wide range of features simple and straightforward.

A sophisticated cordless telephone

- Handsfree speaking function
- Vibration alert
- Alarm clock
- Personal phonebook, that can contain up to 100 names and numbers
- Call list, last 20 dialed, answered and/or missed calls
- Missed call warnings, if there have been missed calls
- Mute button to mute the microphone during a call
- Message key to access voice messages
- Personalized settings, such as key click sound, melody selection etc.
- Up to 8 DECT subscriptions
- CLIP – Calling Line Identification Presentation

Easy-to-use

- Backlit alphanumeric display, with 2 character lines with 12 characters each, and one line of icons with indicators for signal level strength, off-hook, battery level, ringer off, key lock, call information and message waiting indication.
- Multiple language support (Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Norwegian, Brazilian Portuguese, Polish, Slovakian, Spanish, Swedish and Turkish)
- Keypad with large buttons, five navigation keys and special function keys to support handsfree speaking and access to voice-mail.

Accessories

The following accessories can be used in combination with the DT292

Desk stand charger

Carrying case

Security clip

Rack charger

Interface cable to PC

Desk stand charger

As the DT292 Cordless phone set does not include a charger, you will need to select one of the charger sets described below.

The Charger set for DT292 includes a charger adapter, desk stand and an assembly card. Four country versions of the power adapter are available

Charger Set EU for DT292

Charger Set UK for DT292

Charger Set AU for DT292

Charger Set 110V for DT292

Color: MagicGrey

Carrying Case for DT292

The carrying case is a stylish case that protects the DT292 cordless phone. The case is made of genuine leather. The clip can rotate 180° for adaptable wearing positions.

Color: Black

Security Clip

The security clip can be attached to a belt. The phone easily slides in until a click mechanism secures it, preventing it from dropping on the floor. The phone can be released by pressing two buttons on either side of the security clip.

Color: Black

Rack charger

The rack charger is used for charging multiple handset(s). The wall mounted charging rack and its power supply are part of a modular system which enables a number of different installation configurations. The rack charger requires a separate Power module.

Interface cable to PC

This special interface cable is required to connect the 9-pin RS232 connector on the PC to the 2-pin programming connector (also used as interface to the PC) on the DT292 cordless phone.

The CPM (Cordless Phone Manager) software program can be downloaded from http://www.ericsson.com/solutions/enterprise/library/manuals.shtml

The program supports the following functions:

- Update of the firmware in the DT292
- Upload and download of user phonebook (max. 100 entries)

Technical requirements

The DT292 cordless phone is not designed for outdoor or extremely heavy use or extreme climates. The DT292 should not be used in an environment where intrinsically safe devices are required.

The DT292 cordless phone is DECT-GAP and DECT-CAP compliant. The handset cannot be used on existing A/B protocol systems.

The DT292 cordless phone can be used on all Ericsson DECT GAP/CAP compliant business cordless telephone systems.

The DT292 cordless phone has not been tested on other vendor systems and functionality on other vendor systems cannot be guaranteed.

DT590 cordless phone

Enhances mobility

The DT590 cordless phone is an attractive cordless phone that is appealing and easy to use for all.

It allows employees to communicate from any place within an enterprise, therefore significantly increasing the efficiency of the organization. The ergonomic design has been tailored for use in a range of different environments and is easy to hold for long phone conversations. The large LCD screen is easy to read in any location and operation is simple and straightforward.

Advanced, state-of-the-art technology and full business functionality

- Modern design with large graphical display
- Company phonebook for 1000 downloadable and 100 user entries
- Hands free speaking function
- Sending and receiving of SMS messages
- Easy access to PBX features like divert, absence, transfer etc.
- Calculator
- Alarm clock
- Standard Headset/accessory connector
- Long battery life using a Lithium Ion battery
- Vibration alert
- Personal phonebook, that can contain up to 100 names and numbers
- Call list, last 20 dialed, answered and/or missed calls
- Missed call warnings, if there have been missed calls
- Mute button to mute the microphone during a call
- Message key to access voice messages
- Support for bluetooth headset (require bluetooth module)
- Personalized settings, such as key click sound, melody selection etc.
- Up to 8 DECT subscriptions
- CLIP – Calling Line Identification Presentation

Accessories

The following accessories can be used in combination with the DT590

Desk stand charger

Carrying case

Bluetooth Module

Security clip

Interface cable to PC

Rack charger

Headset mic on boom

Headset mic on cable

Connectors:

Connector for charging the battery

2.5 mm jack plug for connecting headset or PC interface cable (using RS232 port)

Optimal headset performance can be achieved by using one of the Ericsson's optional headsets with 2.5 mm plug. Other microphones that can be connected must have the following specifications:

– Microphone levels ranging from -43 dB/Pa to -36 dB/Pa

– Microphone bias voltage is 1.5 V series feed-resistor is 2.2k. DC resistance in this configuration should be from 1k5 to 5k Ohm

– Speaker impedances >30 Ohm

– Headsets using a hook-toggle switch must short circuit the microphone when the button is pressed

Telephony.

Answer call: Yes key (default) or any key press, auto answer or button on headset

Call list: Information on last 20 calls including time stamp (max. 10 dialed calls and max. 10 received/missed calls)

Call information: Support for the following services:

– CLIP – Calling Line Identification Presentation

– COLP – Connected Line Presentation

– RLIP – Redirected Line Presentation

Messaging (SMS)

Message length: System dependent. Maximum is 160 characters

Storage capacity: 10 Messages (first in, first out)

Additional Settings

Languages: Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Portuguese, Spanish, and Swedish

Network: 8 subscriptions are possible with automatic or manual selection. A subscription can be protected to avoid unintentional deletion.

Cordless Phone Manager

This product consists of an interface cable from the 9-pin RS232 connector on the PC to the 2.5 mm headset connector (also used as interface to the PC) on the DT590 cordless phone. The CPM software program can be downloaded from http://www.ericsson.com/solutions/enterprise/library/manuals.shtml

The program supports the following functions:

Download of company phonebook (max. 1000 entries)

• Upload and download of user phonebook (max. 100 entries)

• Download of ringing melodies in RTTTL format (max 10)

• Download of startup screen in BMP format (101x81 pixels)

• Download of PBX related settings

• Download of new cordless phone software

• Download of additional languages

• Generate service forms

1. Specifications are subject to change without prior notice

Technical requirements

The DT590 cordless phone is DECT-GAP and DECT-CAP compliant. The handset cannot be used on existing A/B protocol systems. The DT590 cordless phone supports reception and sending of SMS messages. All messaging functions require that the functionality also be supported by the messaging application attached to the PBX or radio exchange.

The DT590 cordless phone can be used on all Ericsson DECT GAP/CAP compliant business cordless telephone sytems.

The DT590 cordless phone has not been tested on other vendor systems and functionality on other vendor systems cannot be guaranteed.

DT412 cordless phone

Smart communication

The DT412 has all the functions you might want in a wireless telephone.

It's a slim and robust smart communication package for any type of working environment. The DT412 will perform well in any workplace. It's made to withstand dirt, water and a fall on the floor.

2 in one – messaging, and cordless telephone

• Robust, dustproof, waterproof, IP64

• Large, scratchproof, mechanically protected display

• Illuminated display and keypad

• SIM card for identity and personal settings

• Up to 10 modes with personalized settings

• 3 programmable soft keys for each mode

• 10 programmable hot keys

• Manual or automatic keypad lock

• Time and date indication

• Ring signal easily silenced

• Vibration alert

• Separate loudspeaker for ring signal and loudspeaker function

• Sending/receiving messages (SMS)

• Two different text sizes

• Headset connector standard, IP64 classified

• Microphone on/off during call

• Handsfree speaking function

• Personal phonebook, that can contain up to 100 names and numbers

• Call list, last 20 dialed, answered and/or missed calls

• Missed call warnings, if there have been missed calls

• Personalized settings, such as key click sound, melody selection etc.

• Up to 4 DECT subscriptions

Accessories

The following accessories can be used in combination with the DT412

Desk stand charger

Carrying case

Security clip

Rack charger

Headset mic on boom

Headset mic on cable

Peltor headset adapter

SIM-card programmer

Always online

The DT412 is a combination of versatile telephony and messaging, ensuring reliable access to vital information from building automation systems, production lines, Internet and intranet, as well as communication with other users. The DT412 is the optimum choice for people working in factories, hotels and hospitals or any workplace where people are constantly on the move and need to make contact with just the touch of a button.

A multipurpose handset

The DT412 is extremely durable, water-resistant, easy to handle, and comes standard with a large back-lit display, loudspeaker for hands-free operation, headset connector and a built-in vibration mode for silent notification.

Languages

12 languages are supported in the handsets: (Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Portuguese, Spanish, Swedish and Polish)

Technical requirements

The DT412 cordless phone is DECT-GAP and DECT-CAP compliant. The handset cannot be used on existing A/B protocol systems.

The DT412 supports the reception and sending of SMS messages. All messaging functions require that the functionality also be supported by the messaging application attached to the PBX.

The DT412 cordless phone has been approved for all EC/EFTA countries and Australia.

The DT412 cordless phone can be used on all Ericsson DECT GAP/CAP compliant business cordless telephone systems. The DT412 however has not been tested on other vendor systems. Functionality of the DT412 on other vendor systems cannot be guaranteed.

Short message service for DECT

Short Message Service, SMS, is a service based on DECT. Text messages can be sent from a receptionist, supervisor, secretary or anyone within the organization to an individual DECT terminal or to a group of DECT terminals.

The scenario for this feature is organizations with emergency teams or special task forces that need to be alerted. In hospitals, nurse call application is a typical example.

Make the most of your cordless system

As advanced IT and telecommunications come of age smart and truly practical applications are beginning to appear. A prime example is the Short Message Service. Ericsson has harnessed sophisticated messaging technology to the task of maintaining security for your people, buildings and equipment.

Every switch sends a Message

With the Short Message Service you can integrate switches such as doorbells, patient alarms, sensor relays in factory equipment and door, smoke and fire alarms into your cordless telephone system. When one of these switches is activated, pre-programmed text messages are sent to specific cordless telephones so that the right people get the right information and can act immediately.

The Short Message Service offers the possibility to connect your cordless messaging system to your existing paging infrastructure.

Different priority levels are available so that only the most urgent messages get immediate attention. To help staff distinguish different messages, handsets can give a different tone for each type of message.

Adapting to your needs

The Short Message Service can be used with a wide range of portable telephones and accessories. The system has a modular architecture so it can be expanded as your business grows by incorporating various input and output devices.

System set-up and programming are controlled by a easy to use web-interface. The Short Message Service complies with open standards so it can be connected to any message application with the appropriate interface, can, for example, be data network supervision over HP OpenView. And because the systems are based on DECT standards, they will keep pace as cordless technology changes

Smart messaging at work for you

- One of your patients needs assistance. Just by pushing a button at the bedside, a health-care worker knows which patient needs attention.

- If a fire breaks out on your premises, a message is relayed to the fire service with the location of the blaze. Help arrives in time.

- When your production line stalls, a sensor in the belt drive automatically alerts an engineer. He knows immediately where the stoppage is and what tools to bring.

Get the Message even when your line is Busy

Standard with Ericsson cordless

Trying to contact someone with a busy meeting schedule and a telephone that's always engaged can be frustrating. Especially when you need them quickly. Ericsson has simple way to get urgent messages through, even when people are tied up.

Real benefits for busy people

- Availability no matter where people are or what they are doing

- Messages can be sent by both staff and customers, on site or from a remote location

- No disruption of important business

- Message storage means an end to collecting written telephone messages after meetings

- Better time management

- Messages only visible to cordless telephone user

The DECT standard is an open standard defined by ETSI, the European Telecommunications Standards Institute, and is supported by all major PBX suppliers. This, and the excellent quality DECT offers, is your guarantee that this technology is designed to suit your requirements, both today and tomorrow. It's indeed future proof.

Integrated message server

Integrated Message Server (IMS) offers simple and affordable messaging on DECT cordless phones. The IMS is based on a solid-state platform connected to a LAN. An additional PC server is not required to support DECT messaging applications.

IMS features and functions:

- SMS from cordless phone to cordless phone
- Integrated central telephone number directory (500 entries)
- DECT phonebook service. Link to phonebook database on PC e.g. D.N.A. 5.x
- Absence handling
- DECT group handling (30x15 + 1x50 phones)
- Web-based tool for sending messages to cordless phones
- Web-based tool for basic management of alarms from cordless phones and system units
- Supported message and alarm functions:
  – Basic one-way messaging
  – Erase sent messages
  – Mobile data from handsets
  – Personal alarm with location information from handsets

Supported cordless phones

The following cordless phones can be used for messaging:

IMS supported phones	DT412	DT590
Messaging	x	x
Central Phonebook	x	x
Absence handling	x	

SMS from cordless phone to cordless phone

SMS between cordless phones makes it possible to send a message from one cordless phone to another cordless phone or a group of cordless phones.

Integrated central telephone number directory (500 entries)

Integrated central telephone number directory makes it possible to retrieve directory information stored locally in the IMS. Up to 500 entries can be locally stored.

DECT phonebook service

The DECT phonebook service allows the user to access a centralized phonebook from a DECT cordless phone. The telephone directory, with no limitation to number of entries, may be located in a site database (i.e. in the Message Server) or in a database that can be accessed via ODBC (Open DataBase Connectivity; a standard for accessing data sources). In this way a link can be made to a D.N.A. 5.x database residing on a PC.

Absence handling

The IMS keeps track of cordless phones that have reported absence status. When a message is sent to an absent cordless phone, the sending module can get information from the IMS that the cordless phone is absent. A list is also kept up to date in the IMS with the absent cordless phone and the absent reason "manually absent" or "in storage rack".

DECT group handling

The DECT group handler is used when one message should be sent to several cordless phones. The group handler has 30 groups with 15 cordless phone addresses and one group with 50 cordless phone addresses.

Web-based tool for sending messages to cordless phones

With the IMS Messaging Tool, messages can be sent to cordless phones via a browser.

Web-based tool for basic management of alarms

An application called Basic Alarm Manager is included in the IMS. This application makes it possible to send messages to phones on the cordless telephone system or activate outputs in the system as a reaction to inputs such as alarms or data from cordless phones linked to the system. All settings are made through a web interface.

The following can be used to trigger an action:

– 2 inputs available on the IMS
– Alarms from cordless phones
– Data from cordless phones

The following actions can be programmed:

– 2 outputs available on IMS
– Messages to cordless phones or groups of cordless phones

The maximum number of triggers/events and corresponding actions is 250.

Expansion modules

It is possible to connect optional expansion modules with digital input and output functions as well as a standardized ESPA 4.4.4 serial interface. Up to 15 optional modules can be connected to the IMS via an RS485 connection.

The ROANB 220 04/1 T942C central unit is not required. This functionality is integrated in the IMS.

Technical requirements

- Microsoft Internet Explorer 5.5™ or later (only needed for installation, administration and IMS Messaging Tool)
- Ethernet cable TSR 902 0240/7000 for connection to the MD110/Telephony Switch.

For DECT phonebook service

Windows 2000 Professional, Windows XP Professional.

Any database with ODBC connection (eg. D.N.A. 5.x) or WinBK Site Database (as used in DECT message server packages) is also required.

Standards

EMC:	EN 55022 (class B), EN 610005
Low Voltage directive:	EN 60950

Technical pecification	DT190	DT292	DT590	DT412	IMS
Compliance to regulations and standards CE regulation:	73/23/eec, 89/336/eec, 1999/5/ec	72/23/EEC, 89/336/EEC, 1999/5/EC	72/23/EEC, 89/336/EEC, 1999/5/EC	72/23/EEC, 89/336/EEC, 1999/5/EC	N/A
DECT standards:	EN 301 406, TBR10, TBR22	EN 301 406, TBR10, TBR22	EN 301 406, TBR10, TBR22	EN301406, TBR10, EN300444 (TBR22)	N/A
Safety standards:	EN60950	EN60950	EN60950	EN60950	N/A
EMC standard:	EN 301 486-6 EN 55022 class B	EN 301 486-6 EN 55022 class B	EN 301 489, - 6	EN 55022 (class B), EN 61000-4-2, EN 61000-4-3	EN 55022 (class B), EN 610005
SAR:	N/A	EN 50360 0.009 mW/g	EN 50360 (Europe), ACA 2003 (Australia) SAR10g (Specific Absorption Rate) = 0.06 mW/g	EN 50360 (Europe), ACA RS 2001 (Australia) 0.025 W/g	N/A
Free fall test:	IEC 68-2 -32	N/A	IEC 68-2-32	IEC 68-2-32	N/A
Low voltage directive:	EN60950-1	EN 60950-1	EN 60950-1	EN 60950-1	EN 60950-1
Environmental					
Operating temperature:	+5 TO +45 °C	0°C to +40°C	0°C to +40°C	0°C to +40°C	0°C to +40°C
Storage temperature:	-20 to +70°C	-20 to +70°C	-20°C to +55°C	-20°C to +70°C	-20°C to +70°C
Operating humidity:	15 to 90 % non -condensing	15 to 90%, non-condensing	15 to 90% non-condensing	N/A	30 – 85% non condensing
Storage humidity:	5 to 95%, non-condensing	5 to 95%, non-condensing	10 to 95% non-condensing	N/A	N/A
Enclosure protection:	IP 30, EN 60529, not waterproof	IP30, EN 60529, not waterproof	IP40, IEC 60529, not waterproof	IP64, IEC 60529	IP130
General specifications					
Color:	Grey and silver	MagicGrey	MagicGrey and silver	Dark grey and black	Light grey
Size (l x w x h):	154 x 59 x 30 mm	143 x 54 x 25 mm (excl. clip)	143 x 53 x 26 mm	134 x 60 x 27 mm	275 x 130 x 60 mm
Weight material:	127g (incl battery)	139 g (incl. Battery pack and clip)	131 g	130 g (battery included)	620 g
Material: Clip: Key pad: Case: Display (w x h):	N/A Silicon rubber PC/ABS 1(one) line alphanumeric, 13 segments, backlit	POM Silicon rubber PC/ABS 2x12 characters + icon line, backlit	POM Silicon rubber N/A 101 x 80 pixel LCD with white backlit	POM Backlit PC/ABS and TPE (silicone-free) 128 x 64 pixel LCD, Backlit	N/A N/A PC/ABS N/A
Frequency band:	Standard (1880-1900 MHz)	Standard (1880-1900 MHz) Latin America (1910-1930 MHz)	Standard (1880-1900 MHz) China (1900-1920 MHz) Latin America (1910-1930 MHz)	1880 to 1900 MHz	N/A
Phone book					
Name length entry:	12 characters max	12 characters max.	12 characters max.	16 characters max.	N/A
Number length entry:	22 digits max	24 digits max.	24 digits max.	22 digits max.	N/A
Entries:	20 manual via keypad	100 manual via keypad or programmable via PC	Personal: 100 entries Company: 1000 entries	Personal: 100 entries	500 internal or more using DECT phonebook services
Battery					
Type:	550mAh,2,4V NiMH 2xAAA	700 mAh, 2.6 V NiMH (Nickel Metal Hydride)	850 mAh, Lithium-Ion	750 mAh Li-Ion	N/A
Talk-time:	10 hours typical	17 hours typical	20 hours typical, 14hrs using Bluetooth	12 hours typical	N/A
Standby time:	170 hours typical	140 hours typical	140 hours typical, 120hrs using Bluetooth	120 hours typical	N/A
Charge time:	5,5 hours maximum	4 hours maximum	4 hours	2 hours, 4hrs using rack charger	N/A
Sound					
Ring signal:	Adjustabel in 5 steps	Adjustable in 7 steps + silent (via menu)	Adjustable in 9 steps 14 ring signals incl. 10 downloadable melodies	Adjustable in 5 steps	N/A
Earpiece:	Adjustable in 3 steps	Adjustable in 9 steps (push button)	Adjustable in 10 steps	Adjustable in 6 steps With headset: adj. In 6 steps	N/A
Vibrating alert:	N/A	Integrated	Integrated	Integrated	N/A
Connectors					
Headset:	N/A	N/A	2.5 mm jack for headset	Splash proof headset connector	N/A
Battery compartment:	N/A	2 pin programming connector	Connector for Bluetooth module	N/A	N/A