

## Ericsson MD110 / BusinessPhone Communication Devices



*We've got the business world talking*

## Communication systems that talk business

*Ericsson has a way of making communication go places. So really, it is no wonder more people make and receive calls using our telephone systems than any other.*

*After all, we did launch the world's first GSM digital mobile phone. And we introduced our first car phone way back in 1956. So it stands to reason that we know what we're talking about.*

*Our communication systems are flexible, scalable and practical to the last button. Made for new and challenging ways of working, and exciting new ways of communicating - whether you're at the office or on the move. It doesn't really matter; the job gets done as you expect it to.*

*Talking business? Then let's talk Ericsson MD110 and BusinessPhone communication systems...the mouthpiece of business the world over.*

## 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.*

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*We've got the business world talking*



# Cordless Telephones

*"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.



## DT288

*Because mobility peaks performance*

The DT288 comes with excellent speech quality and offers all the advantages of cordless voice communication. No important calls missed, no time lost picking up messages and no call-back costs. This is the phone that saves money while increasing efficiency. And it comes to you at a very attractive price indeed.

### Highlights:

- Lightweight at only 139 grams with battery.
- Phone book of 100 numbers facilitates speedy, error-free dialing.
- Talk time of up to 15 hours with up to 150 hours standby time.



## DT570

*Full functionality throughout the office*

The DT570 is designed for high-intensity phone users who need easy control over their reachability and full access to communication services. Enhanced capability includes user-friendly divert and voice/text message handling menus.

### Highlights:

- 'Corporate' downloadable phone book stores up to 1000 numbers.
- Text messages of up to 140 alphanumeric characters receivable even during a call.
- Lists Dialed number/Who called/Missed call with last 15 dialed numbers available for speedy redial.





## DT570 cordless telephone accessories

### DS600 Docking Station

Stylish desktop charging unit that supports superior audio quality together with handsfree operation. It's ideal for teleconferencing.



### MC6000 Desktop Charger

Simultaneously charges a spare battery. Features a simple docking/undocking procedure. It supports the use of the portable handsfree accessory. This charger should be used in combination with the travel charger.



### Travel Charger

This is an entry-level charging solution.



### Headset Profile

Comfortable handsfree operation for intensive headset users.



### Portable Handsfree

Small, discreet and easy to carry, this unit provides enhanced convenience for users. It consists of an earplug and microphone on a cord.



### Silent Call Alert

This discreet click-on vibrates to alert users of an incoming call. As such, you can stay accessible even during a meeting.



### NM6066 Slim Battery

A standard accessory that is more eco-friendly than NiCd batteries. A belt clip is included.



### NM6080 Ultra-Slim Battery

Created for a sleek phone that is still able to offer long standby and talk time.



### Classic Case

Protect your phone against knocks and dust. The case is easy to fasten and remove.



### Security Clip

Small and discreet, the clip prevents the phone from falling out of your pocket.

Ideal for headset users.



# DT4xx series

## Hardworking phones for hardworking people

*“When the going gets rough, it’s nice knowing I will be able to count on my tough handset to keep me in contact.”*

The cordless phones in the DT4xx series come to you with unbeatable built-in convenience in the form of memory functions and a sleek yet durable design. The phones are based on the open DECT/GAP standard, offering you outstanding speech quality regardless of location, and the ability to keep pace with technology.

DT4xx phones are also specially designed with a rugged IP54-classified plastic casing, which makes them tougher than the average phone. The phones are all specifically designed for demanding environments, hence their resistance to knocks, water spray, dust and soil.



- Highlights:**
- Large, sturdy buttons and a clear LCD display facilitate ease of use.
  - Calling line ID allows callers to be identified in the display before you answer.
  - One-touch dial enables the ten most frequently called numbers to be dialed at the press of a button.
  - Built-in personal phone book holds up to 75 quick-dial entries.
  - Personal data like subscriptions, telephone book and personal settings can be stored on an interchangeable SIM card, making the process of changing handsets a lot easier.
  - Talk time of up to 100 hours.

**Main functional differences in the DT4xx series:**

Options	DT400	DT410	DT420	DT430
Vibrator				
Factory option	•	•	•	—
Headset with head-set battery pack	•	•	•	—
Intrinsically safe	—	—	—	•
Messaging				
Receive text message	—	•	•	•
Push button alarm	—	—	•	•
Man-down alarm	—	—	Factory option	•



## DT4xx series cordless telephone accessories

### Desktop Charger

This desktop charger takes one hour to fully charge a drained DT4xx phone. It can also charge a spare battery.



### Headset

A low-cost solution for hands-free communication, this headset comes with a handy earpiece and microphone.

Note: It is NOT for use with the DT430.



### Headset With Hearing Protection

Built for noisy or industrial environments, this headset protects hearing in accordance with PPE directive 89/686/EEC. Note: It is NOT for use with the DT430.



### EX-Battery Pack NiMH

The pack is used in potentially hazardous areas and features an integral screw locking. It is IP64-classified for the DT430.



### Battery Pack NiMH with Headset Connector

This pack is not IP classified.

Note: It is NOT for use with the DT430.



### Belt Clip

Hinge type that clips onto a pocket or edge of clothing.



### Click-On Belt Clip

A really smart way of having your handset with you wherever you go!



### Leather Case

For added protection, this leather case comes with a transparent front panel and click-on belt clip.



### Security Chain

The security chain, approximately 80cm long, attaches to a hinge type belt clip and will protect your phone if you drop it.





## TH688

The freedom of a GSM mobile system but with the cost savings of a DECT cordless phone.

The TH688 allows you to take your office with you. In GSM mode, the handset has full data and fax capabilities with an infrared modem adapter. In either setting it offers you high speech quality. In GSM mode it allows you to send and receive SMS messages. And it can subscribe to no fewer than 8 different DECT systems, making it ideal for multiple site configurations.

### Highlights:

- GSM and DECT technology in one device.



*“Freedom is having the best of both worlds in one phone... now there are no limits to what I’m capable of achieving.”*

## A concise comparison of cordless phones:

	DT288	DT570	DT4xx-Series	TH688
Physical				
Size (mm)	142x54x25	130x49x23	142x51x21	130x49x23
Weight (grams)	139	160	195	220
Ringer output level at 30cm (dBA)	85	87	93	87
Standard battery				
Capacity (mAh)	600	650	900	800
Charge time (hours)	3	2	1	2
Standby time (hours)	150	50	100	47(DECT)/42(GSM)
Talktime (hours)	15	10	10	15(DECT)/3,8(GSM)
Phone directory				
User-definable entries	100	100	100	
Pre-programmable entries	-	1000	75 (also user definable)	1000
Menu features				
Last dialed list entries	10	15	10	5
PIN code	•	•	-	•
Network-dependent features				
CLIP	•	•	•	•
Message waiting indication	•	•	•	•
COLP	•	•	-	•
RLIP	-	•	-	•
Missed call list entries	10	10	10	10
DECT Messaging	-	•	•	-
DECT Air protocol	GAP/CAP	GAP/CAP A/B	GAP/CAP	GAP/CAP A/B
Environmental				
Operating temperature	0 to 40°C	0 to 40°C	0 to 40°C	0 to 40°C
Storage temperature	-20 to 70°C	-20 to 70°C	-20 to 70oC	-20 to 70°C
Relative humidity	15 to 90%	10 to 80%	15 to 90%	10 to 80%



# Dialog 3200 Digital System Telephones

*"I find the business potential in a communication system to be absolutely exciting...it's challenging to be able to tap into its wide resources."*

*Surely you want to be as cost-effective and efficient as possible. One of the best assets you can have to help you along is a communication system. To bring out the best in your Ericsson business communication system, you need the Dialog 3200 series of digital telephones.*

*Their advanced call-handling functions and potential for computer-telephony applications bring modern communications to every workplace, vastly improving efficiency and customer service.*

*There are five models in this family of telephones that range from an entry-level model and two advanced system telephones, to a sophisticated executive model for advanced functions as well as a dedicated operator telephone.*



## Highlights:

- The phones require no expensive rewiring and are easily adapted to the changing needs and structure of your organization. Telephony, data and multimedia communications can all be accommodated using standard twisted pair connections to the PBX.
- The Dialog 3200 phones are flexible in that they can be configured for key systems or Automatic Call Distribution (ACD) groups. Hence you can easily set up extensions to suit your specific requirements, with single-key operation for the most-used functions.
- You can upgrade at any time to more advanced phones, and/or incorporate Computer Telephony Integration (CTI) or even multimedia communication. This potential for upgrading makes for a sensible long-term investment.
- The elegant design and slim profile of the Dialog 3200 phones make them not only stylish, but ergonomically sound as well.
- User-friendliness is enhanced with improved functionality and human interface. The LEDs marking the keys and the LCD display are easy to read at any angle, keeping users informed about call status and messages from other extensions.
- Dialog 3200 telephones are recyclable. All plastic parts are marked for recycling purposes.

In addition to all these features, you have a whole host of new features awaiting you with the latest system releases:

- Choice of language.
- Dial-by-name that allows the caller to make a directory search in the directory.
- Name/number log stores unanswered calls in a list accessible from the terminal where the call is initiated.

## Dialog 3210

### *Reliability that comes with superior digital voice quality*

This compact, cost-effective model meets all basic telephony needs. The Dialog 3210 is specifically designed for customers who want traditional voice functions with superior digital voice quality. It is the ideal convenience phone for visitor or service areas. The Dialog 3210 can be adapted to suit organizational changes or the demands of relocation. The more advanced telephones can be easily upgraded.

#### Highlights:

- Standard 12-button keypad.
- Six function keys, including Access and Inquiry functions.
- All function keys have LEDs.
- You can assign two keys to your desired functions, such as message-waiting, call diversion, call-back or voicemail access.
- Keys are available for call transfer and programming.
- On hook dialing.

## Dialog 3211

### *Advanced communication with a difference*

The Dialog 3211 is a desktop telephone with virtually all of the features of the Dialog 3212, except that it comes without the digital display panel. The phone supports CTI (Computer Telephony Integration) and simultaneous data transmission using an optional adapter unit. All phones can be configured as a member of a key system group.

#### Highlights:

- Programmable ringer, loudness and tone character.
- Possibility to connect a headset or extra handset using an option unit.
- Adjustable console base.
- Easy to mount on wall.
- Supports handsfree speaking.



## Dialog 3212

### *The phone developed with you in mind*

This is the user-friendly desktop telephone with full functionality for advanced communications. It supports CTI (Computer Telephony Integration) and simultaneous data transmission using an optional adapter unit. All phones can be configured as a member of a key system group.

The telephone features a 2x20 alphanumeric character display for data such as the called party's extension number and location status, and the time and date of the incoming call.

The display can be tilted at four angles. A built-in loudspeaker enables the speaker and the handset to be simultaneously busy, and hands-free operation is standard.

#### Highlights:

- Programmable ringer to set loudness and tone character.
- Possibility to connect a headset or extra handset using an option unit.
- Adjustable console base.
- Easy to mount on wall.
- Supports handsfree speaking.
- The Dialog 3212 and 3211 have each 15 function keys, four of which can be individually programmed.
- Associated LEDs help keep track of ongoing, parked or unanswered calls.



- All programmable function keys can be labeled by the user. Functions include:
  - Volume control for incoming voice on both loudspeaker and telephone receiver.
  - Clear function to disconnect call without replacing the handset.
  - Mute function to disconnect the handset and hands-free microphones.
  - Call transfer to other extensions.
  - Call diversion.
  - Message-waiting indicator.
  - Call back.
  - Hot-line enables you and your secretary to converse while other calls are in progress. Your secretary is also able to screen incoming calls.

## Dialog 3213

### *Sheer sophistication at your fingertips*

This multi-featured executive model telephone supports advanced system functions. The Dialog 3213 is ideal for use in secretarial supervision configurations, key systems and ACD group functions.

The telephone features a 3x40 alphanumeric character display for data such as the called party's extension number and location status, and the time and date of the incoming call. The display can also be tilted at four angles.

The Dialog 3213 supports Computer Telephony Integration (CTI) together with D-channel handlers like the Desktop Adapter, enabling TAPI-based applications, such as Backstage. When connected to a Terminal Adapter Unit (TAU), the telephone can be attached to a PC or modem using the existing twisted-pair connection.

In addition to having simultaneous voice and data communication capabilities, the Dialog 3213 can switch between two access lines.

### **Highlights:**

- The Dialog 3213 incorporates extensive features designed to combine the functionality of an operator console with user-friendliness of an ordinary telephone.
- The loudspeaker and handset can be simultaneously active. This function even incorporates acoustic feedback prevention.
- Programmable ringer loudness and tone character.



- Option to connect a headset or extra handset using an option unit.
- Adjustable console base.
- Easy to mount on wall.
- Supports handsfree speaking.
- 29 function keys, 14 of which are individually programmable to desired functions.
- All programmable function keys can be labeled by the user and have LEDs to help keep track of calls and activated functions.
- Up to two additional key panels (four for BusinessPhone) can be attached with 17 programmable function keys each. Functions include:
  - Volume control for incoming voice on both loudspeaker and telephone receiver.
  - Clear function to disconnect call with out replacing the handset.
  - Mute function to disconnect the handset and hands-free microphones.
  - Call transfer to other extensions.
  - Call diversion.
  - Message-waiting indicator.
  - Call-back.
  - Hot-line enabling you and your secretary to converse while other calls are in progress; your secretary is also able to screen incoming calls.
  - Dial-by-a-function log /Speed dialing.

## OPI 3214/Dialog 3214

### *The MD110 and BusinessPhone operator telephones that makes sound sense*

The OPI 3214 and Dialog 3214 Operator telephones are specifically designed for the needs of operators working with MD110 and BusinessPhone PBXs. It is designed to provide them with full switchboard access and functionality.

Elaborate studies of switchboard operator's requirements have influenced the design of this telephone. Easy and quick operation has been a prerequisite in the design of the user interface. The OPI 3214 and Dialog 3214 supports advanced system functions that are required for operator configurations. The keys that are used most frequently have been positioned with a comfortable space in between to grant fast and secure operation

### **OPI 3214 for MD110**

A large 5x40 character display offers well-structured information layout where the status and the call information is presented.

The display and key texts are easy to read and understand. The keypad uses a conventional numeric keypad and single access to all traffic handling functions.

### **Highlights:**

- Dedicated user interface for operators
- The name of the calling connected party is displayed
- The operator can choose between five different languages to be displayed



- Adjustable console base
- It is possible to connect a headset and option unit

### **Dialog 3214 for BusinessPhone**

The number of fixed keys has been reduced for ease of use. Many previously fixed function keys have been merged into four dynamic soft keys for easy operation.

A large 5x40 character display offers well-structured information layout. Functions include:

- Call diversion.
- Message- waiting indicator
- Call- back.
- Hot- line enables an executive and secretary to converse while other calls are in progress; the secretary is also able to screen incoming calls.
- Speed dialing.

### **Highlights:**

- Dedicated user interface for operators.
- Active hook switch possible.

- Possibility to connect a headset or an option unit.
- Supports handsfree operation.
- A maximum of four key panels can be attached, each panel being able to activate 17 programmable function keys.
- Adjustable console base.
- Programmable ringer loudness and tone.
- In- built loudspeaker.

## Digital system telephones features:

	Dialog 3210	3211	3212	3213	3214	OPI 3214
<i>Line access</i>	1	2	2	2	–	–
<i>Inquiry Key</i>	1	1	1	1	–	–
<i>Programmable Keys</i>	2	4	4	14	3	–
<i>LEDs</i>	8	12	12	22	–	14
<i>Soft Keys</i>	–	–	–	4	4	–
<i>Alphanumeric display</i>	–	–	•	•	•	•
<i>Characters</i>	–	–	2x20	3x40	5x40	5x40
<i>CTI support</i>	•	•	•	•	•	•
<i>Option unit connection</i>	•	•	•	•	•	•
<i>Connection for extra key panel</i>	–	–	–	•	•	–
<i>Message-waiting indicator</i>	•	•	•	•	•	–
<i>Speaker monitor</i>	•	•	•	•	•	–
<i>Hands-free operation</i>	–	•	•	•	•	–
<i>Mute function</i>	•	•	•	•	•	•
<i>Volume control</i>	•	•	•	•	•	•
<i>Programmable ringer volume</i>	•	•	•	•	•	•
<i>Tone</i>	•	•	•	•	•	•
<i>Transfer key</i>	•	•	•	•	•	–
<i>Clear function</i>	•	•	•	•	•	•

## Dimensions\* and weight

	3210	3211	3212	3213	3214	Key panel
<i>Length (mm)</i>	227	233	233	233	233	226
<i>Width (mm)</i>	160	194	194	256	256	87
<i>Height (mm)</i>	86	86	86	86	86	67
<i>Weight (g)</i>	650	850	850	1100	1100	230

\*all values in non-tilted position

<i>Digital signaling</i>	2B+D
<i>Rate voice</i>	64 kbit/s
<i>Line signals</i>	16 kbit/s
<i>Synchronization</i>	4 kbit/s
<i>Voice transmission</i>	Sending and receiving loudness rating according to ETSI Requirements
<i>Handset mode</i>	
<i>Sending</i>	(SLR) +7 ±3dB
<i>Receiving</i>	+3 ±3dB
<i>Receiving volume control</i>	±8dB
<i>Sidetone (STMR) normalized within</i>	+13 to +18 dB
<i>Hands-free mode</i>	
<i>Sending</i>	(SLR) +12 ±4dB
<i>Receiving</i>	–6 ±4dB
<i>Receiving volume control</i>	0 – 20dB attenuation
<i>Microphone</i>	Electret
<i>Receiver</i>	Dynamic
<i>Loudspeaker</i>	Electromagnetic

## Prerequisites:

### Software

MD110 or BusinessPhone communication system

### Hardware

Digital extension lines with 2B+D features

### Line network

2-wire connection  
Maximum line length, type EKKX  
2x0.5mm,1000m

### Environmental ranges:

Operation  
Temperature +5°C – +45°C  
Relative humidity 10% – 95%  
Storage  
Temperature –10°C – +55°C  
Relative humidity 10% – 95%

### EMC ETSI

Standard requirements

### Ringer

Ten levels (maximum volume>72 dBA) and ten different tones provide 100 different combinations for the Dialog 3211, 3212 and 3213 and Dialog 3214/OPI 3214. The Dialog 3210 features ten fixed combinations.

### Colors

The standard colors of the Dialog 3200 system telephones are light grey or dark grey.



## Dialog 3200 digital system telephones spare parts:

Each and every one of the Dialog 3200 digital system telephones is built to be modular. This is so that you can replace certain parts by yourself, without the assistance of a repairman.

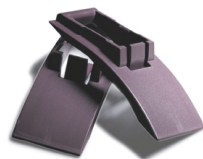
Replaceable parts include the handset, handset cord and designation strips.

### Handset with privacy button.



### Pull-out board for number directory for mounting under the telephone.

### Terminal foot.



### Handset cord.



## Dialog 3200 digital system telephones accessories:

The accessories are available for the all Dialog system telephones.

### Option unit accessory interface

An accessory interface providing connections for a tape recorder, extra bell/busy signal access, headset or conference unit and extra handset can be mounted on all Dialog 3200 telephones. The option unit is mounted on the bottom of the telephone and connected via a 12-pole connector.



### Key panel

Comes with 17 extra programmable keys and associated LEDs (Dialog 3213 only).

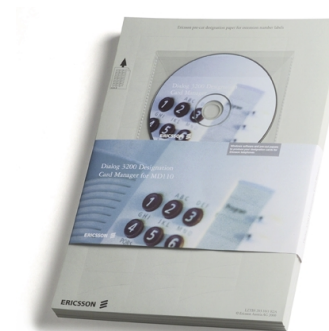


### Software and papers

*Telephone Tool box* including Designation Card Manager (DCM) software and user guides. This comes packaged with every new telephone.

*Online Tutorial:* Computer Based Training for all phones.

*Designation Card Kit* consisting of CD-rom with DCM and precut papers.



# Dialog 3310 ISDN Telephone

*The Dialog 3310 is a fully featured digital phone for both business and home users.*

*The Dialog 3310 has a menu-driven user-friendly set-up that provides rapid access to ISDN services. Simple programming makes the phone quick to install and easy to use. It connects to the ISDN network via the S0 interface, in addition to being Euro-ISDN compatible.*

*Dialog 3310 has the appreciated Dialog 3000 design that integrates seamlessly into the MD110 installations with Dialog 3200 and 3100. Dialog 3310 is not only stylish, but ergonomically sound as well. The 2 x 20 alphanumeric LCD display is tiltable at four angles and shows the time, date, menu and the called party's number*



## Telephone features

- Simultaneous voice and data communication
- 2 x 20 alphanumeric character display showing time, date, menu and the called party's number
- 20 function keys, of which 5 are menu keys, 9 are dial-by-name keys, 5 have fixed functions and one is a redial key
- Volume control for handset receiver and loud speaker
- Programmable ringer level and tone
- Mute key with LED indicator to disconnect microphone
- Scrolling function
- 9 dial-by-name keys that can be labeled by the user
- Call duration display
- Multiple subscriber number with LED indicator and ring tone
- Programming lock with 5-digit PIN code
- Retrieval and redial of the last three numbers dialed
- Toggle between two calls
- English, German or French user menu
- Phone book to store up to 50 memory location with name and phone number
- Room monitoring (babysitting) function
- Do-not-disturb function (phone silent)

- Up/down select functions according to the menu
- Call blocking (partial/global)+
- Listen-in while connection is established, monitor loudspeaker
- Idle mode display messages
- Inquiry call
- Time and date setting
- Loudspeaker
- DTMF dialing/KEYPAD sending selectable

## ISDN Services

- Display of calling party's number (CLIP) and name (if listed)
- Calling line identification restriction (CLIR)
- Call rejection with number storage
- Three multiple-subscriber numbers (MSN)
- Call-waiting (CW)
- Advice of charge (AOC)
- Call hold/retrieve
- Three-party service (3PTY)
- Call forwarding:
  - Unconditional (CFU):* all calls forwarded
  - Busy (CFB):* calls forwarded only when the line is busy
  - No reply (CFNR):* calls forwarded when there is no answer
- Terminal portability (TP)
- Automatic time and date
- Supports point to multi-point



## Technical data

Permanent memory storage until changed by user

Restricted power, single terminal mode switch

*Dimensions and weight*  
225 x 195 x 85 mm 915g

*Color* Light gray

*Microphones* Electret

*Receiver* Dynamic

*Loudspeaker* Dynamic

*Tone ringer* 9 levels and 8 tones

*Transmission*  
*Handset mode*  
SLR: 7  $\pm$ 3,5 dB  
RLR: 3  $\pm$ 3,5 dB

*Volume control:*  
-12 dB to +10 dB

*Signaling*  
EURO-ISDN

*Environmental Ranges*  
Operation +5 to +40°C  
Storage -20 to +70°C

Please note that many features are system-dependent.



# Dialog 3413 IP Telephone

## IP communications made simple

*"Yesterday I had a telephone in my hand...today I have a powerful information source. It's amazing!"*

Now is the time for IP communications to take your business to new heights of achievement. And all it takes is for you to migrate on your existing PBX. The Dialog 3413 is a fully-featured IP telephone that harnesses the combined power of your existing data network and your Ericsson PBX: To provide you with business-class telephony, data and multimedia communications. And it's all possible without unnecessary rewiring.



This sophisticated executive model telephone is upgradeable from the system software, so new features can be added as needed. Users can easily set up their own extensions to suit their specific requirements, with single-key operation for the most-used functions.

The Dialog 3413 has up to three active lines to the PBX. Users can handle two calls at the same time and still be able to make inquiry calls to the operator or secretary on the third line. Triple-line access, call-transfer and message-waiting help prevent missed calls.

The 3 x 40 alphanumeric character display can be tilted at four angles. It provides information such as the called party's extension number, location status as well as the time of an incoming call.

- The Dialog 3413 combines advanced functionality with the simplicity of an ordinary telephone.
- Hands-free speaking standard.
- Loudspeaker function allowing the loud speaker and handset to be simultaneously active, plus acoustic feed back prevention.
- Programmable ringer loudness and tone.
- Headset and hearing-aid compatibility.
- G.711, G.723.1 and G.729a voice compression.
- Handset can be connected to either the left- or right-hand side of the telephone.
- Adjustable console base.
- Easy to mount on wall.
- The Dialog 3413 features 29 function keys, 10 of which are individually programmable. All programmable function keys can be labeled by the user and have LEDs. Functions include:
  - Volume control for incoming voice on both loudspeaker and telephone receiver.
  - Disconnection of a call without replacing the handset.
  - Mute function to disconnect the handset and hands-free microphones.



- Call-transfer to other extension.
- Follow me.
- Message-waiting indicator.
- Call-back.
- Speed dialing.
- Telephone directory
- Local call logg.

Dialog 3413 system features

*Voice transmission*    Sending and receiving loudness rating according to ETSI requirements

*Handset mode*

Sending	(SLR) +7 ±3 dB
Receiving	+3 ±3 dB
Receiving volume control	±8 dB
Sidetone	(STMR) normalized within +13 to +18 dB

*Hands-free mode*

Sending	(SLR) +12 ±4 dB
Receiving	−6 ±4 dB
Receiving volume control	0 – 20 dB attenuation

*Components*

Microphone	Electret
Receiver	Dynamic
Loudspeaker	Dynamic

*Dimensions\* and weight*

Length	233 mm
Width	256 mm
Height	86 mm
Weight	1100 g

\*all values in non-tilted position

**Prerequisites:**

*Software*

MD110 BC11 or higher  
BusinessPhone Version 5.1 or higher.

*Hardware*

ELU-32  
24V AC or DC required, supplied over the LAN to the desktop by means of an Ericsson PowerHub model or using external AC/AC power supply

*Line network*

4-wire connection  
Maximum line length 100 m according to IEEE 802.3 EMC EN55022, EN55024

*Ringer*

Ten levels (maximum volume >72dBA) and ten different tones provide 100 different combinations for the Dialog 3413

*Color*

Light gray

Features:

<i>Line access</i>	2
<i>Inquiry key</i>	1
<i>Programmable keys</i>	10
<i>LEDs</i>	22
<i>Soft keys</i>	4
<i>Alphanumeric display</i>	Yes
<i>Characters</i>	3 x 40
<i>CTI support</i>	No
<i>Option unit connection</i>	No
<i>Connection for extra key panel</i>	No
<i>Message-waiting indicator</i>	Yes
<i>Speaker monitor</i>	Yes
<i>Hands-free speaking</i>	Yes
<i>Mute function</i>	Yes
<i>Volume control</i>	Yes
<i>Programmable ringer volume</i>	Yes
<i>Tone</i>	Yes
<i>Transfer key</i>	Yes
<i>Clear function</i>	Yes

Voice over IP

- 10/100 Base T x Ethernet via an RJ-45 interface
- H.323 and Microsoft NetMeeting compatible
- IP address assignment via Dynamic Host Configuration Protocol (DHCP) or manual entering
- WAP-enabled for PBX services



# Dialog 3100 Analog Telephones

You can count on them for performance and reliability

*"I am always sure that things will work as I want it to when I reach out for a Dialog telephone...it's been doing so for years".*

The Dialog 3100 series analog telephones are renowned the world over for their award-winning design and durability. On top of which these highly user-friendly phones will deliver a standard of performance and reliability that will endure the test of time.

Dialog 3100 telephones are specifically built to be compatible with any analog extension of an Ericsson or other PBX. This makes them a versatile tool for your business communications, both now and well into the future.

All the phones come with a host of features that are advanced and yet simple to handle.

They are available as basic, medium and premium models to fit the different needs of your organization and maximize the efficiency of your staff.



Undoubtedly, the quality analog phones that constitute the Dialog 3100 series all have a solid core of basic features and are suitable for all staff members. Hence, the phone you choose will depend purely on the functionality needed at your specific workplace.

## Highlights:

- Call-handling productivity is enhanced by last-number re-dial, an adjustable ring signal, volume control, mute button.
- Suitable for desktops or wall mounting.
- Handset cord can connect to either the left- or right-hand side of the phone.
- Adjustable console base.
- Adjustable ringer loudness and tone.
- Hearing-aid compatibility.
- Exchangeable cords.
- Mute function to disconnect the handset microphones.
- Last-number redial.
- LED indicator for mute function.
- Programming key

## Dialog 3105

The sensible phone

Standard features that are listed above.

## Dialog 3105 MW

Standard features as above, with message waiting (MW) function. This model is equipped with message waiting LED on the front casing. In case where no MW function is required (e.g. residential application) the switch can easily deactivate the MW function.

The MW circuitry is connected to pin 3 and 4 in the telephone line socket.

## Dialog 3145

A sound investment

Standard features that are listed above PLUS:

- 10 dial-by-name keys.
- LED indicator for monitored loudspeaker.

## Dialog 3145 MW

The solid workhorse

Standard features that are listed above PLUS:

- 10 dial-by-name keys.

- LED indicator for monitored loudspeaker.
- This model is equipped with message waiting LED on the front casing. By a switch, at the bottom, it is possible to select if MW circuitry shall be connected to pin 1 and 6 or pin 3 and 4 in the telephone line socket.



Dialog 3105  
Dialog 3105 MW



Dialog 3145  
Dialog 3145 MW

## Dialog 3146 Hotel

The phone tailor-made for the hotel business

A telephone designed for use in hotels, it is equipped with a line output for connecting a computer via a modem and has a message waiting LED on the front casing. By a switch, at the bottom, it is possible to enable or disable the "program key" function. This feature useful when one wants to avoid the user from altering the dial-by-name memory contents (i.e. hotel room guests)



Dialog 3146 Hotel

### Highlights:

- Hotel guests have a choice of three different tone characteristics and three sound levels.
- The programming key can be locked to that guests cannot use it.
- Monitored loudspeaker function.
- Message waiting indication LED.
- Volume control for incoming voice on both loudspeaker and telephone receiver.
- 10 dial-by-name keys.
- Line output for a modem connection.
- Lockable program key.
- R-key with flash

## Dialog 3185/Dialog 3185 MW

It sets the standard

The most advanced telephone in the Dialog 3100 series. The two-way, hands-free loudspeaker and the handset render exceptional sound quality. Together with advanced features, such as LCD display with date, clock and call duration timer, this analog phone meets the highest standards of business communication.

This model is also available with message waiting LED on the front casing as option.



Dialog 3185  
Dialog 3185 MW

### Highlights:

- Volume control for the handset and loud speaker.
- R-key with flash and earth modes.
- Message waiting indication LED.
- Mute function to disconnect the handset and hands-free microphones.
- 20 dial-by-name functions on 10 keys (2 memory functions per key).
- LCD display with date and clock.
- Call duration timer.

## Dialog analog telephones features

(Use this handy matrix to find the telephone to suit your needs).

	3105	3145	3145 MW	3146 Hotel	3185	3185 MW
Mute function	•	•	•	•	•	•
Hearing-aid compatibility	•	•	•	•	•	•
Adjustable ring signal	•	•	•	•	•	•
Volume control for the handset	•	•	•	•	•	•
R-key	•	•	•	•	•	•
Programming key	•	•	•	•	•	•
Lockable programming key	–	–	–	•	–	–
Tone or pulse dialing	–	–	–	–	•	•
Temporary switch to tone dialing	–	–	–	–	•	•
Last number redial	•	•	•	•	•	•
Message-waiting LED	–	–	•	•	–	•
Dial-by-name keys	1	9	9	9	2x10	2x10
Monitor loudspeaker	–	•	•	•	–	–
Analog line output for PC	–	–	–	•	–	–
Hands-free speaking function	–	–	–	–	•	•

### Dialog analog telephones specifications

*Voice transmission* Transmitting and receiving loudness rating according to ETSI requirement

### Dimensions\* and weight

	3105	3145	3145 MW	3146 Hotel	3185
Length (mm)	227	233	233	233	233
Width (mm)	160	194	194	194	194
Height (mm)	86	86	86	86	86
Weight (g)	650	850	850	850	850

*Line network* For public or private analog lines only

\*all values in non-tilted position



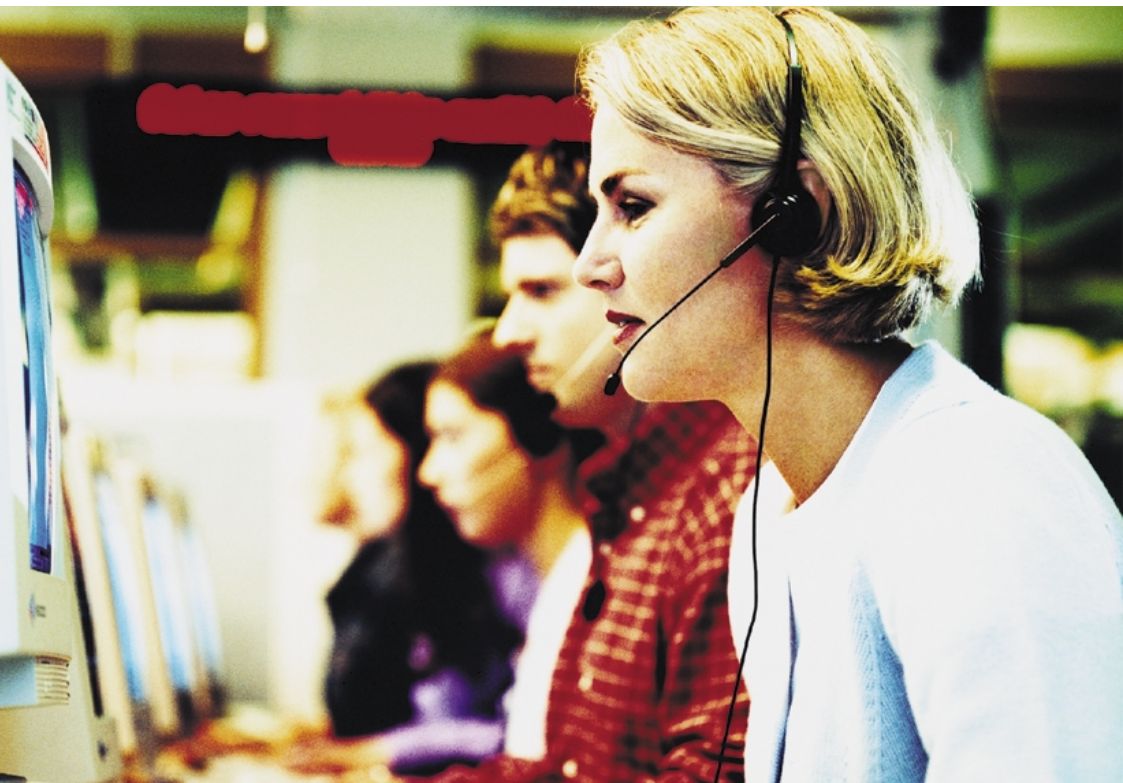
# Dialog Headsets 100 & 200 Series

A headset to fit you, and your needs

*"I concentrate better and am able to get a lot more work done...  
I personally think it's an ingenious invention!"*

Consider the freedom of having the use of both hands while working on your computer, taking notes or simply reaching for that misplaced sheet of paper. That's what the Dialog Headset offers you – the ability to perform multiple tasks while talking comfortably and more efficiently on the telephone.

Frequent telephone users, for example those who work with telemarketing, at call centers and even help-desk personnel will find that Dialog Headsets to be absolutely essential to their productivity and ergonomic well-being. At the same time, less frequent users will appreciate the utter freedom and comfort of hands-free mobility.



*Dialog Headsets provide optimum wearer comfort and help reduce muscular strain to the back, neck and shoulders. That is why it is the best solution possible when it comes to relieving work-related fatigue and increasing call-handling productivity.*

Dialog Headsets are designed and adjusted for use with Ericsson's Dialog 3000 family of telephones and operator consoles. Dialog Headsets are available in the 100 and 200 series. Choose your headsets according to the your work function, environment and compatibility with the telephone equipment used. We recommend you refer to the matrix for guidance.

The 100 and 200 series both contain monaural and binaural models that are lightweight and come with comfortable cushioned earphones. They also render excellent voice quality. Headsets with noise-cancelling microphones for reducing distracting background noise are also available.

## Dialog Headsets 100 Series

**A monaural headset** designed for reception desk personnel or users who need to interact with others while taking calls.

RLF 321 113/1

RLF 321 207/1 with an 8-pole Lemo plug



**A binaural headset** that delivers superb clarity while effectively blocking out background noise.

RLF 321 114/1



**A comfortable monaural headset** with fully adjustable headband for a secure fit.

*RLF 321 115/1*



**An easy-to-use, monaural headset** with flexible fit. It can be worn with an adjustable headband or over the ear (earhook included in package).

*RLF 321 116/1*



**Bi-way switch for 100 series** (not included in the standard package).

- Enables easy switching between the handset and headset.
- Three modular jacks (4/4): one that connects to the telephone set and the other two for connection to the handset and headset respectively.
- A short cable with modular plugs (4/4) for connection to the telephone set.

*RMF 317 003/1*



## Dialog Headsets 200 Series

**A monaural headset** with comfortable over-the-ear loop that is ideal for use in business environments. It comes equipped with a noise-canceling microphone.

*1/RLF 321 204/1*



**A monaural headset** with removable headband designed to meet the highest standards of individual wearing comfort. Also features superior sound quality and is equipped with a noise-cancelling microphone.

*1/RLF 321 205/1*



A discreet and extremely lightweight **monaural headset** that meets the highest standards of individual wearing comfort and features outstanding sound quality.

*1/RLF 321 201/1*





**A monaural headset** that provides exceptional comfort and features an adjustable headband and noise-canceling microphone. Its lightweight fit and excellent acoustic quality enables all-day wear.

*RLF 321 210/1*

Incorporating the same features as the RLF 321 210, this **binaural version** facilitates complete concentration even in noisy environments.

*RLF 321 211/1*

**Amplifier/switchbox for 200 series headsets.** Highly recommended for amplifying the sound level (not included in the standard package).

- Suitable for use when switching between the headset and the handset, in addition to amplifying the sound.
- Three modular jacks (4/4): one that connects to the telephone set and the other two for connection to the handset and headset.
- A short cable with modular plugs (4/4) for connection to the telephone set.
- 1.5 V battery (alkaline type, cadmium free).

*2/RLF 321 201/1*



100 series	Noise cancelation	Call center use	Operator use	Receptionist use	Noisy environments	Business environment
<i>RLF 321 113/1</i>	–	–	•	•	–	•
<i>RLF 321 114/1</i>	•	•	•	–	•	–
<i>RLF 321 115/1</i>	–	–	•	•	–	•
<i>RLF 321 116/1</i>	–	–	•	•	–	•
<i>RLF 321 207/1 (with an 8-pole Lemo plug)</i>	–	–	•	•	–	–
	(older OPIs)					

#### 200 series.

<i>1/RLF 321 201/1</i>	–	–	–	–	–	•
<i>1/RLF 321 204/1</i>	•	–	–	•	–	•
<i>1/RLF 321 205/1</i>	•	•	•	•	–	–
<i>RLF 321 210/1</i>	•	•	•	•	•	–
<i>RLF 321 211/1</i>	•	•	•	–	•	–

#### Dialog headsets specifications

*Compliance with EU directives*  
All of the Dialog Headsets fulfill EU directives for EMC and LCD

#### Colors

*Dialog Headset 100 series:*  
graphite gray (RLF 321 115/1 is black)

*Dialog Headset 200 series:*  
black

#### Environmental endurance data

*Operation temperature and relative humidity*

Ambient temperature during operation  
–10 to +45°C

*Relative humidity*  
10% to 90%

#### Compatibility

*All headsets are compatible with the Dialog 3000 series of telephones and the DGF 22010, except for the RLF 321 207/1, which is compatible with DGF 22001/1-5, 14 and DGF 22001/2, 1, 2, 7.*

#### Package contents

Headband when applicable

#### Electro-acoustical characteristics

Sending	Headset only	Headset + Dialog phone
<i>DC feeding</i>	5V, 3 kohm	
<i>Loudness rating</i>	SLR = +7 ±3dB	
<i>Nominal sensitivity</i>	–37 dBV/Pa at 1kHz	
<i>Frequency response</i>	ETSI TBR 8	
<i>Noise, psophometric</i>	< –64 dBmp	
<i>Total distortion</i>	< 3%	< 3%
Receiving		
<i>Impedance</i>	> 180 ohm	
<i>Loudness rating</i>	RLR = +3dB at nominal volume	
<i>Nominal sensitivity</i>	+30 dBPa/V at 1 kHz	
<i>Noise</i>	< 40 dBA	
<i>Noise distortion</i>	< 3%	< 3%

The Dialog Headset series fulfills all of the relevant sections of the Speech Performance Characteristics set by the European Telecommunications Standards Institute's (ETSI) Technical Basics for Regulations (TBR 8).

# Dialog 500 Conference unit

## *Facilitator of a meeting of minds*

The Dialog 500 is a full-duplex add-on unit for handsfree speaking functionality and conference calls. The high-performance unit for professional use features automatic adjustment of transmission and reception characteristics to compensate for differing room acoustics.

The Dialog 500 can be connected to the handset outlet on Ericsson's Dialog 3200 series telephones, as well as all other comparable Ericsson phones.



## Highlights:

- Full-duplex conferencing
- Automatic adjustment of transmitting and receiving characteristics with respect to the acoustics of the room.
- Designed for rooms up to 25 m<sup>2</sup>.
- Omni-directional microphone.
- 3 speakers for the best possible sound distribution.
- On/Off key with an LED to indicate on-position.
- Mute function key disconnecting the microphone (3 red LEDs indicate when the microphone is muted).
- Volume control keys

## Dialog 500 Conference unit specifications

### *Analog connection*

The Dialog 500 uses a 4-wire connection to the Dialog 3200 handset modular plug. The connection is made via a switch box, which is included in the package in addition to the cords.

**Power supply** 13 V, 500 mA. Power supply for 230 VAC is included

### *Dimensions and weight*

Diameter	232 mm
Height	88 mm
Weight	1100 g

### *Output tape recorder*

3.5 mm earphone type



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