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**iPECS**

Your Communications Solution

Simple and Compatible  
Business Communications Solution  
iPECS-MG

A man and a woman in a modern office setting are looking at a computer monitor. The man is leaning over the woman, and they both appear to be engaged in a collaborative work task. The office has large windows in the background, letting in natural light. The overall atmosphere is professional and focused.

Adopt the transition  
and secure your  
investment with  
iPECS-MG

Is your company considering a transition to IP Telephony? Do you wish to adopt the latest IP technology while keeping your investment on traditional telephony environment? iPECS-MG responds to your SMB needs enabling both IP telephony and TDM system

functionality with its flexible IP converged capabilities. The iPECS-MG is a highly reliable, extensible and feature-rich business platform that integrates your PSTN, IP and mobile networks providing you with improved business productivity.

## Simplification

The iPECS-MG simplifies communications with a high quality hardware platform offering your business all the benefits of rich features and a broad range of capabilities with easy to use and simplified management. As an ideal platform to SMB, the iPECS-MG adopts simple architecture, which allows a cost effective expansion of your business. The iPECS-MG delivers built-in services for customization including basic hybrid ports consisting of 12 extensions and 4 Auto Attendant(AA) or IP lines, SIP/IP capacity for trunk and extension interfaces, advanced telephony features such as Directory Number (DN) & Tenant group and Least Cost Routing(LCR), and basic telephony resources such as door phone, alarm, paging, and Music On Hold(MOH).

## Efficiency

The iPECS-MG's future-ready technology delivers business efficiency with its flexible IP converged capabilities.

The iPECS-MG's approach to IP ensures increased application performance and enhancements in the areas of converged voice, data and multimedia along with security, mobility, management and serviceability. The iPECS-MG interworks seamlessly with Ericsson-LG Enterprise UC solutions to extend full headquarter-based

applications and capabilities to branch and remote offices. It also interworks with other applications such as Auto Attendant / Voice Mail for messaging and powerful in-building mobility solution with Ericsson-LG Enterprise DECT phones, and Wi-Fi technology, which can further improve your business efficiency.

## Convergence

As a stand-alone solution, the iPECS-MG can be combined and proposed with a full range of Ericsson-LG Enterprise voice and data products. The iPECS-MG provides extensive telephony features and value-added applications and a full range of Ericsson-LG Enterprise phones - fixed and wireless, IP and digital based and soft-clients.

On the data side, the Ericsson-LG Enterprise's data portfolio drives the solution's networking capabilities with certified and proven Ethernet switches - providing high speed data transfer, secured internet access, VoIP Quality of Service(QoS) and Power over Ethernet (PoE).

In addition, by centralizing configuration and device monitoring either on-premises or remotely, the iPECS UDM(Unified Device Management) and iPECS NMS(Network Manage-

ment System) help create a complete converged business communications system, which meets the unique requirements, challenges and budgets of SMBs.

## Compatibility

The iPECS-MG enables SMBs to protect their investments and seamlessly migrate from a TDM based environment to a single IP network. The iPECS-MG platform simultaneously supports IP and traditional business sets to provide a single IP network or mixed network (TDM & IP) solution. Whether you're ready for convergence today or a year from now, your options will be open and investment will be secure.



## Platform

### Simple architecture

Modern telephony equipment is often required to be installed in a 19" rack along with other data. While the chassis for the iPECS-MG is optimized for rack-mounted installations, a wall mount bracket kit is also available.

### Highly available feature rich platform

The iPECS-MG's ready to use solution offers no extra costs by including 12 extension & 4 AA (or IP) lines used for SIP/IP capacity implemented for trunk and extension interfaces and advanced telephony features like Automatic Call Distribution(ACD), Least Cost Routing(LCR), 1st party CTI and TDM signaling processors handling Caller ID(CID), Call Processing Tone, and Dual Tone Multi-Frequency(DTMF).

### Highly scalable platform

The iPECS-MG has simple components to deal with and flexible system architecture for cost effective expansion, addressing from 30 to 300 employee sized businesses. With two variations of dedicated controllers, iPECS-MG100 and the iPECS-MG300, each has 200 ports and 414 ports respectively as a maximum capacity. The other system components are used commonly no matter which controller is used.

### Security & Quality of Service (QoS)

The iPECS-MG prioritizes security by adopting IPSec and sRTP which are well known security standards using advanced encryption techniques and tunneling. To assure the highest QoS, iPECS-MG supports the standard DiffServ pre-tagging and 802.1p/q WALN technology, as well as the echo cancellation function.

### Standards-based technology

The iPECS-MG's standards-based technology allows SMB to take advantage from existing communications environment while it shifts to IP based communications environment. Using the SIP trunking interface connected to the growing list of SIP based Internet Telephony Service Providers, the iPECS-MG helps your business achieve low-cost VoIP calls over managed broadband IP networks. Furthermore, the iPECS-MG has the ability to support

the latest standards in IP protocol for carrier hosted services (H.323 Rev.4.2.3.0/ SIP Rev.4.5.0.26). It supports other industry standards such as IEEE standards (802.11b) and ITU standards (G.711, G.723.1, G.729 and T.38).

### Flexible networking system

The iPECS-MG's flexible networking system enables seamless communication under a centralized control. In larger environments, the iPECS-MGs are networked through Ericsson-LG Enterprise's proprietary IP networking bringing together multiple branch office systems into a seamless telephony network. Furthermore, the iPECS-MG can be integrated in a powerful private network with other Ericsson-LG Enterprise systems including the iPLDK and the iPECS-LIK.

### Built-in applications

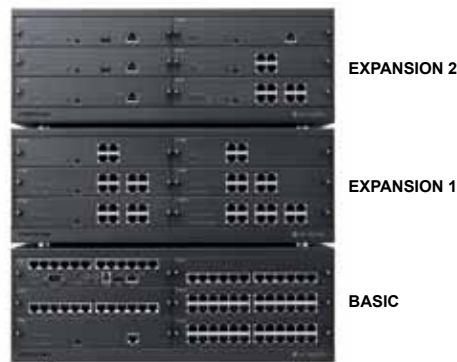
#### Auto Attendant

The Messaging Solution of the iPECS-MG also provides the benefits of productivity gain and better customer service by using an optimized Auto Attendant solution with personalized features such as custom greetings, menu options and call routing.

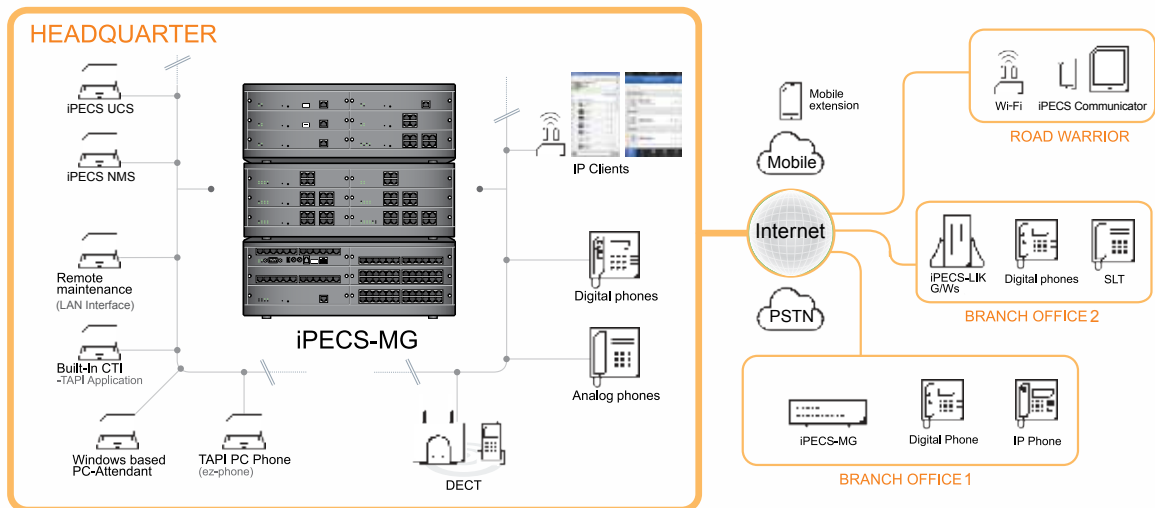
#### Voice Mail

The iPECS-MG's voice mail board allows users to handle offline calls during busy hours and being away from the office. Employees can record personalized greetings and enjoy a password-protected access to their messages, with value-added information such as CID, time and date of the call, etc.

CABINET EXPANSION



\* MPB on Basic KSU



## Applications

Every business has different communications needs and meeting these needs is critical for your business communications solution. Ericsson-LG Enterprise iPECS-MG offers various applications for you to fulfill different needs and requirements in your business. Unified Communications, Management and monitoring solutions, customer service and contact hospitality solutions and other applications are designed to deliver an efficient and powerful communications solution for your business.

### Unified Communications and collaboration solutions

- iPECS UCS, ez-Attendant, Phontage

### Productivity enhancement solutions

- iPECS IPCR
- iPECS Attendant
- Hotel PMS Interface for Micros Fidelio and Ericsson-LG Enterprise PMS
- ez-Phone

### Mobile applications for communications and collaboration

- iPECS Communicator P2 (Android, iOS)
- Phontage

### Easy management and monitoring solutions

- iPECS NMS, UDM



# Terminals

The iPECS-MG supports an extensive range of terminals such as digital and IP phones, SIP phones, DECT, Wi-Fi phones and legacy telephones. These terminals are designed for business users who require a range of feature-rich telephony devices to match your constantly changing business needs. The iPECS-MG gives you access to a large portfolio of terminals to suit your unique business telephony needs.

## IP Phones



LIP-8050E

- 4.3" Wide Color Graphic screen
- 5 Programmable feature keys
- USB interface [USB 2.0]
- LLDP-MED / 802.1x security support
- VLAN, Open VPN support
- Gigabit support



LIP-8040E

- Informative large 9 Line backlit LCD
- User programmable 10 feature keys with LCD labeling
- BLF information with triple color LED
- Professional headset integration via RJ11
- LLDP-MED / 802.1x security support
- Open VPN support
- Gigabit support



LIP-8024E

- 4 Line backlit LCD
- User programmable 24 feature keys
- BLF information with triple color LED
- More informative display with feature icons
- LLDP-MED / 802.1x security support
- Open VPN support
- Gigabit support



LIP-8012E

- 3 Line backlit LCD
- User programmable 12 feature keys
- BLF information with triple color LED
- Gigabit support
- High quality voice codecs
- Enhanced quality conference call
- LLDP-MED / 802.1x security support
- Open VPN support



LIP-8008E

- 4 Line LCD
- User programmable 8 feature keys
- BLF information with triple color LED
- Enhanced quality conference call
- High quality voice codecs
- LLDP-MED / 802.1x security support



LIP-8002E/AE

- 2 Line LCD, Grey scale graphic display
- User programmable 4 feature keys
- LLDP-MED
- LIP-8002E (PoE support) / LIP-8002AE (non PoE with adapter)



LIP-8040LSS



LIP-8012LSS



LIP-8048DSS



LIP-8012DSS

	LIP-8040LSS	LIP-8012LSS	LIP-8048DSS	LIP-8012DSS
DSS keys	40 w/ triple color LED	12 w/ triple color LED	48 w/ triple color LED	12 w/ triple color LED
Underlay	LCD	LCD	Paper	Paper
Power supply	Via external or PoE up to 9	Via keyset up to 2	Via external up to 4	Via keyset up to 2

## Digital Phones



LDP-9030D

- 3 Line LCD with high visibility backlighting
- 7 Fixed buttons
- 30 Programmable buttons
- 3 Soft keys
- Wall mountable
- Optional Bluetooth
- More extension handling with optional DSS



LDP-9008D

- 2 Line LCD with high visibility backlighting
- 7 Fixed buttons
- 8 Programmable buttons
- Wall mountable
- High quality conference calling
- Flexible desktop configuration options via tilting handset



LDP-9048DSS

- 48 Programmable buttons
- Compatible with LDP-9030D
- Up to 5 DSS consoles supported



LDP-7024LD

- 9 Line Large LCD
- 24 Flexible buttons
- 7 Fixed buttons
- 3 Soft buttons
- Navigation button
- Additional device port for SLT / FAX
- Call recording
- Speaker phone
- Wall mountable
- Optional Bluetooth



LDP-7024D

- 3 Line LCD
- 24 Flexible buttons
- 7 Fixed buttons
- 3 Soft buttons
- Navigation button
- Additional device port for SLT / FAX
- Call recording
- Speaker phone
- Wall mountable
- Optional Bluetooth



LDP-7016D

- 3 Line LCD
- 16 Flexible buttons
- 7 Fixed buttons
- 3 Soft buttons
- Navigation button
- Additional device port for SLT / FAX
- Speaker phone
- Wall mountable



LDP-7008D

- 2 Line LCD
- 8 Flexible buttons
- 5 Fixed buttons
- Speaker phone
- Headset jack



LDP-7004D

- 1 Line LCD
- 2 Flexible buttons
- 5 Fixed buttons
- OHD(On-hook Dialing)
- Message waiting lamp



LDP-7004N

- 2 Flexible buttons
- 5 Fixed buttons
- OHD(On-hook Dialing)
- Message waiting lamp

## Cordless Phones



GDC-500H(DECT Phone)

- Ruggedized design for advanced functionality
- Feature rich 2" full color LCD
- Serial port for software upgrade and direct charging
- Standby 100 hrs / Talking 10 hrs
- Scanning 5 base stations as candidates for handover
- Bluetooth headset support
- Different ring tone up to 9
- Speakeet phone



GDC-450H(DECT Phone)

- Robust housing for indoor harsh environments
- Scratchproof window and printed buttons
- Feature rich 1.5" full color LCD
- Standby 130 hrs / Talking 20 hrs
- Easy menu via navigation and softkeys
- Backlit LCD and keypad



WIT-400HE

- 2" TFT Color LCD
- iPECS Protocol based system terminal
- 802.11 b/g compatible / 802.11e for WLAN QoS
- Talking 3 hrs / Standby time 50 hrs
- G.722 Wideband voice codec
- WEP/WPA/WPA2
- 3-way conference, system hold, call back, linked pair and more system call features



WIT-400H

- SIP based system terminal
- Wireless IP Phone
- 802.11b/g compatible
- User friendly GUI with 2" TFT color LCD
- Standby 60hrs / Talking 3hrs
- WEP/WPA/WPA2
- 2.5mm ear mike jack
- Web browser for public hot spot log in



GDC-600BE

- Base station for GDC-450H and GDC-400H
- 6 simultaneous calls, 300m RF distance
- 3 LED indicators

### DECT Solution Capacity

Capacity	iPECS-MG100	iPECS-MG300
Handset Registration	96	192
Interface Board	2	3
Base Station	16	24

## System Components

Cabinet	MG-BKSU	Basic KSU
	MG-EKSU	Expansion KSU
Power supply	MG-PSU	Power Supply Unit
Controller	MG-MPB100	Main Processor Board for iPECS-MG100 with DSU (DKT6+SLT6, 4AA/VoIP)
	MG-MPB300	Main Processor Board for iPECS-MG300 with DSU (DKT6+SLT6, 4AA/VoIP)
Function board	MG-DTIB12 / MG-DTIB24	12/24 Digital Phone Interface Board
	MG-SLIB12 / MG-SLIB24	12/24 SLT Interface Board
	MG-LCOB4 / MG-LCOB8 / MG-LCOB12	4/8/12 LCO Interface Board
	MG-PRIB	Digital Trunk Interface Board (1PRI or 1E1/R2, 30chs)
	MG-BRIB2 / MG-BRIB4	2/4 BRI Interface Board (S0&T0 selectable, 4chs/8chs)
	MG-VMIB	Voice Mail Interface Board (8chs, 100hrs)
	MG-AAIB	Auto Attendant Interface Board (8chs)
	MG-VOIB8 / MG-VOIB24	8/24 VoIP Interface Board
	MG-WTIB4 / MG-WTIB8	4/8 Base Wireless Terminal Interface Board
Others	GDC-600B/600BE	6 Channel DECT Base Station
	MG-MODU	MODEM Unit (33Kbps)
	MG-CMU4	4 Call Metering Unit (50Hz/12KHz/16KHz)
	MG-WMK	Wall Mount Bracket

# Specification

PSU	AC Voltage Input	100 ~ 240 +/- 10% Volt AC @47~63Hz
	AC Power consumption	350W
	AC Input Fuse	6.3A @ 250Volt AC
	DC Output Voltage	+ 5, + 30Volt DC
External Backup Battery	Input Voltage	24Volt DC
	Battery Fuse	15.0A @250Volt AC
	Charging Current	Max. 1A
	Battery Load Current	Max. 12A
Operating Environment	Temperature	0~40°C
	Humidity	0~80% non-condensing
Dimension	KSU	170.2 x 440 x 325.4 (mm)
Weight	Basic KSU	6.2 kg (without PSU)
	Expansion KSU	6.25 kg (without PSU)

# System Capacity

Item	iPECS-MG capacity	
	MG-MPB100	MG-MPB300
MPB		
Total Line	200	414
CO	80	240
Extension	120	324

The content of this document is subject to revision without notice due to continued progress in methodology, design and manufacturing. Ericsson-LG Enterprise shall have no liability for any error or damage of any kind resulting from the use of this document.

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