Simple and Compatible Business Communications Solution, iPECS-MG
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 UC solutions to extend full headquarters-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 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 voice and data products. The iPECS-MG provides extensive telephony features and value-added applications and a full range of Ericsson-LG phones - fixed and wireless, IP and digital based and soft-clients.

On the data side, the Ericsson-LG’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 Management 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’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 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.
Applications

Every business has different communications needs and meeting these needs is critical for your business communications solution. Ericsson-LG 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 PMS
- ez-Phone

Mobile applications for communications and collaboration
- iPECS Communicator for Android
- Phontage

Easy management and monitoring solutions
- iPECS NMS, UDM
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.

**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
- Enhanced high quality conference calling
- Flexible desktop configuration options via tilting handset

**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

**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

**LDP-7024D**
- 3 Line LCD
- 24 Flexible buttons
- 7 Fixed buttons
- 3 Soft buttons
- Navigation button
- Additional device port for SLT / FAX

**LDP-7016D**
- 3 Line LCD
- 16 Flexible buttons
- 7 Fixed buttons
- 3 Soft buttons
- Navigation button
- Additional device port for SLT / FAX

**LDP-7000D**
- 2 Line LCD
- 8 Flexible buttons
- 5 Fixed buttons
- Speaker phone
- Headset jack
**IP Phones**

<table>
<thead>
<tr>
<th>LIP-8040E</th>
<th>LIP-8024E</th>
<th>LIP-8012E</th>
<th>LIP-8008E</th>
<th>LIP-8002E/AE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Informative large 9 Line backlit LCD</td>
<td>4 Line backlit LCD</td>
<td>3 Line backlit LCD</td>
<td>4 Line LCD</td>
<td>2 Line LCD, Grey scale graphic display</td>
</tr>
<tr>
<td>User programmable 10 feature keys with LCD labeling</td>
<td>User programmable 24 feature keys</td>
<td>User programmable 12 feature keys</td>
<td>User programmable 8 feature keys</td>
<td>User programmable 4 feature keys</td>
</tr>
<tr>
<td>BLF information with triple color LED</td>
<td>BLF information with triple color LED</td>
<td>BLF information with triple color LED</td>
<td>BLF information with triple color LED</td>
<td>LLDP-MED</td>
</tr>
<tr>
<td>More informative display with feature icons</td>
<td>Gigabit support</td>
<td>High quality voice codecs</td>
<td>Gigabit support</td>
<td>LLDP-MED / 802.1x security support</td>
</tr>
<tr>
<td>LDP-MED / 802.1x security support</td>
<td>Open VPN support</td>
<td>Enhanced quality conference call</td>
<td>Open VPN support</td>
<td>2 Line LCD, PoE support / LIP-8002AE (non PoE with adapter)</td>
</tr>
<tr>
<td>Open VPN support</td>
<td>Gigabit support</td>
<td>LLDP-MED / 802.1x security support</td>
<td>Gigabit support</td>
<td></td>
</tr>
<tr>
<td>Gigabit support</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Cordless Phones**

**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

**GDC-600BE**
- Base station for GDC-450H and GDC-400H
- 6 simultaneous calls, 300m RF distance
- 3 LED indicators

**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
**System Components**

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

**Other Specification**

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

**System Capacity**

<table>
<thead>
<tr>
<th>Item</th>
<th>iPECS-MG capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPB</td>
<td>MG-MPB100</td>
</tr>
<tr>
<td>Total Line</td>
<td>200</td>
</tr>
<tr>
<td>CO</td>
<td>80</td>
</tr>
<tr>
<td>Extension</td>
<td>120</td>
</tr>
</tbody>
</table>

**DECT Solution Capacity**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>iPECS-MG100</th>
<th>iPECS-MG300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handset Registration</td>
<td>96</td>
<td>192</td>
</tr>
<tr>
<td>Interface Board</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Base Station</td>
<td>16</td>
<td>24</td>
</tr>
</tbody>
</table>

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

© Ericsson-LG Co., Ltd. 2009-2013. Ver. 2.0