

# Hybrid Communications Platform for SMB, iPECS eMG80

iPECS eMG80 adopts VoIP technology running in optimized IP/TDM hybrid switching platform. The ability to communicate seamlessly over IP networks delivers advantages over existing hybrid technologies, permitting SMBs to access productive applications in a simple and cost effective manner.

## Seamless expandability for SMBs

With iPECS eMG80, you can start small with 8~12 users and grow seamlessly to more than 100 ports. Employing a multi-cabinet (KSU) architecture that allows four type of basic KSU and one type of expansion KSU to configure a dynamic system. iPECS eMG80 delivers cost effective communications to small and growing businesses and affordable expandability to medium sized businesses.

## Simple installation and maintenance

The iPECS eMG80 adopts advanced HTML5 based Web admin, which is an intuitive simple solution to system configuration and maintenance. The Web Manager Install Wizard presents the basic installation in a series of simple steps for an easy basic installation in English or other local languages.

## Cost effective and expandable VoIP technology

iPECS eMG80 platform includes advanced VoIP technology supporting low cost SIP trunking, on/off-premise mobility, remote connectivity and multi-site networking with minimal cost to overcome geographical boundaries.

## Rich features and applications

The rich feature set spans all the basic features and functions of a modern communications platform such as Transfer, Caller ID, MOH, etc. and delivers advanced functions including an integrated multi-level Auto Attendant and Voice Mail with both mobile and E-mail notification.



### Key Features

- Integrated Auto Attendant /Voice Mail
- Centralized Voice Mail
- E-mail notification
- IP-Attendant
- (CAS) Attendant Call
- Automatic Call Distribution (ACD)
- Personal groups
- Mobile extension
- SIP extension
- Remote control from mobile phone
- Web call back
- SMDR (Station Message Detail Recording)
- Traffic analysis
- System scenario call routing
- Multiple language support
- Green power save

### Ericsson-LG Applications

- iPECS Attendant
- iPECS Communicator
- iPECS UCS
- Phontage
- iPECS IPCR

### Supported Terminals

- LIP-9070
- LIP-8000E Series
- IP8800E Series
- LDP-7000 Series
- LDP-9000 Series
- LDP-DPB
- GDC-450H
- GDC-500H
- WIT-400HE
- ACT-50

### 3rd Party Applications

- TAPI (3rd Party)
  - Fidelio I/F
  - SIPE
- \* Required an each license

## KSU Components

Item	Board	Description
KSU		Key Service Unit, eMG80 cabinet, KSU and EKSU
KSUA	MBUA	4 CO, 1 DKT and 7 Hybrid Interfaces Voice Mail (2-channel/1-Hour default, 8-channel/31-hours max.) VoIP (2-channels default, 16-channel max.)
KSUAD	MBUAD	4 CO, 8 DKT and 4 SLT Interfaces Voice Mail (2-channel/1-Hour default, 8-channel/31-hours max.) VoIP (2-channels default, 16-channel max.)
KSUI	MBUI	1 DKT and 7 Hybrid Interfaces Voice Mail (2-channel/1-Hour default, 8-channel/31-hours max.) VoIP (2-channels default, 16-channel max.)
KSUID	MBUID	8 DKT and 4 SLT Interfaces Voice Mail (2-channel/1-Hour default, 8-channel/31-hours max.) VoIP (2-channels default, 16-channel max.)
EKSU	EMBU	4 CO and 8 Hybrid, Extended KSU

## Power & Board Components

Item	Board	Description
PSU		Power Supply Unit, pre-installed in each cabinet
Interface Boards	eMG80-CH204	2 CO Line and 4 Hybrid Interface Board
	eMG80-CH408	4 CO Line and 8 Hybrid Interface Board
	eMG80-CS416	4 CO Line and 16 SLT Interface Board
	eMG80-BH104	1 BRI (2B+D) and 4 Hybrid Interface Board
	eMG80-BH208	2 BRI (2B+D) and 8 Hybrid Interface Board
	eMG80-HYB8	8 Hybrid Interface Board
	eMG80-SLB16	16 SLT Interface Board
	eMG80-PRIU	1 PRI/E1R2 or T1 (30 or 24 channels) Interface Unit
	eMG80-BRIU2	2 BRI (2B+D) Interface Unit
eMG80-WTIB4	4 Wireless Terminal Interface Board (24 channels)	
Function Boards	eMG80-VVMU	8 VoIP, 4 VM Channel, 1 hour default plus 15 hours VM storage – licenses required for VoIP, VM channel and VM storage
	eMG80-MEMU	Memory Expansion Module Unit for VM (15 hours)
	eMG80-MODU	Modem Unit
	MG-CMU4	4 Call Metering Unit, 4 channel daughter board for MBU, EMBU and analog CO Line Interface boards
eMG80-RMB	-	19" Rack Mounting Bracket (Option)

## System Capacity

Item	Capacity
CO/Trunk lines	Max. 74
Stations	Max. 140
Attendants	4
Modem Channel	1(MODU)
Power Fail Circuit	Max. 6 (1 per KSU, EKSU, CH204, CH408, CS416)
VSF Device 1: Built-in AA/VM	4 channels(2ch. by default, 2ch. by license), 1 hour
VSF Device 1: Built-in AA/VM w/MEMU	15 hours(no license needed)
VSF Device 2 (VVMU)	4 channels and 15 hours(by license), 1 hour(by default)
DECT Phones	48
Built-in VoIP channels	8(2 channels by default, 6 channels by license)
VVMU VoIP channels	8(by license)
IP Stations and SIP Trunks	48 port (32 Stations+16 SIP Trunks)
SMDR buffer	5,000
System Speed Dial / Zones (Groups)	3,000 numbers, 23 digits each / 10 zones
Conference Groups - System	40
Conference Groups - Station	20 per station

## Interface & Standard

Item	Specification
LAN Interface	10/100Base-T Ethernet (IEEE 802.3) 1port, Half or Full Duplex (Auto-Negotiation)
Serial Port(RS-232C)	1
USB(2.0) Host port	1
VoIP Protocol	SIP and H.323 Revision 2
Voice Compression	G.711/G.726/G.729/G.723.1
Voice/Fax Switching	T.38
Echo cancellation	G.165

## Operating Environment

Temperature	0(°C) - 40(°C)
Humidity	0 - 80% (non-condensing)

## Dimension & Weight

W x H x D (mm)	KSU	307 x 294 x 126.6
	Expansion KSU	307 x 294 x 126.6
Weight (Kg)	KSU	2.0
	Expansion KSU	1.99

## Power Requirement

Item	Description	Specification
PSU	AC Voltage Input	100~240 +/- 10% Volt AC @ 47-63 Hz
	AC Power consumption	90 Watts
	AC Input Fuse	2A @250 Volt AC
	DC Output Voltage	+5, -5, +27, +30 Volt DC
External Backup Battery	Input Voltage	+24 Volt DC (+12 VDC x 2 each KSU)
	Battery Fuse	5.0A @250 Volts AC, 5AG
	Charging Current	Max. 200 mA
	Battery Load Current	Max. 3A (KSU only), Max. 6A (KSU+ EKSU)