Hybrid Communications Platform for SME, iPECS eMG80

iPECS
Your Communications Solution

iPECS eMG80 adopts VoIP technology running as an optimized IP/TDM hybrid switching platform. This gives the ability to communicate seamlessly over IP networks and delivers advantages over existing hybrid technologies by providing SMEs with efficient and productive applications using iPECS eMG80 in a simple and cost-effective manner.

Embedded UC and Telephony

As the most compelling advantage, UC features are embedded in iPECS eMG80. Users can improve business efficiency and productivity with embedded UC features including real-time voice, video and presence enabled IM with messaging services (Visual Voice Mail and SMS etc.) under a single user interface on multiple devices.

Rich Business Applications

iPECS eMG80 provides a various range of applications and mobile clients to fulfill varying needs and requirements in the SME environments. Also, it offers interoperability with various 3rd party solutions in hospitality, healthcare and other vertical industries, by enabling RESTful API integragtion.

Wide Range of Mobility

iPECS eMG80 provides multiple mobility solutions to improve business productivity and decrease communication expenses. iPECS DECT and IP DECT handsets provide feature rich and reliable communications for internal mobile workers. iPECS UCS mobile client delivers the power of a desk phones to smartphones or tablet PCs for external mobile workers.

Flexible Multi-Site Deployment

As a branch deployment solution, iPECS eMG80 enables flexible and cost-effective multi-site deployment as local/branch system. Also, it provides secure and seamless communication features. When a connection between the central system and the remote devices fail, the local system will work as the call server responsible for the local devices. Besides local survivability, it also provides PSTN back-up service (Fail-over) for internal calls.

Seamless Scalability

As a scalable call server iPECS eMG80 allows businesses to easily expand capacity with optional gateways or boards. With the iPECS eMG80 easily expandable capacity, users don't need to change all hardware resources to expand their system. If a user needs to grow to digital lines from analog lines just the basic KSU needs to be changed and all other hardware resources such as expansion KSU, desktop IP/Digital phones can all be still used. With iPECS eMG80's scalability, users can experience upfront investment savings and cost-effective expansion as a business grows.

Embedded VoIP

Embedded VoIP channels are one of the great advantages. iPECS eMG80's advanced VoIP technology supports low cost SIP trunking, on and off-premise mobility, remote connectivity and multi-site networking with minimal cost to overcome geographical boundaries.

KSU Components

Item	Description
KSUA	**Basic KSU**(4 CO, 1 DKT and 7 Hybrid Interfaces) Voice Mail(Default : 2 ch/1 hr, Max : 16 ch/32 hrs with MEMU/VVMU, 16 ch/77 hrs with MEMU2/VVMU) VoIP(Default : 2 ch, Max : 16 ch with VVMU) Built-in UCS Default Option 1, Option2*(Desktop/Mobile, Advanced User) : 2/2, 2 copy Built-in ClickCall : 2 copy
KSUAD	**Basic KSU**(4 CO, 8 DKT and 4 SLT Interfaces) Voice Mail(Default : 2 ch/1 hr, Max : 16 ch/32 hrs with MEMU/VVMU, 16 ch/77 hrs with MEMU2/VVMU) VoIP(Default : 2 ch, Max : 16 ch with VVMU) Built-in UCS Default Option 1, Option2*(Desktop/Mobile, Advanced User) : 2/2, 2 copy Built-in ClickCall : 2 copy
KSUI	**Basic KSU**(1 DKT and 7 Hybrid Interfaces) Voice Mail(Default : 2 ch/1 hr, Max : 16 ch/32 hrs with MEMU/VVMU, 16 ch/77 hrs with MEMU2/VVMU) VoIP(Default : 2 ch, Max : 16 ch with VVMU) Built-in UCS Default Option 1, Option2*(Desktop/Mobile, Advanced User) : 2/2, 2 copy Built-in ClickCall : 2 copy
KSUID	**Basic KSU**(8 DKT and 4 SLT Interfaces) Voice Mail(Default : 2 ch/1 hr, Max : 16 ch/32 hrs with MEMU/VVMU, 16 ch/77 hrs with MEMU2/VVMU) VoIP(Default : 2 ch, Max : 16 ch with VVMU) Built-in UCS Default Option 1, Option2*(Desktop/Mobile, Advanced User) : 2/2, 2 copy Built-in ClickCall : 2 copy
EKSU	**Expansion KSU** 4 CO and 8 Hybrid

* Only one default option can be used



Key Features

- Built-in iPECS UCS
- Built-in iPECS ClickCall
- Embedded VoIP
- Embedded Voice Mail
- Embedded ACD
- Embedded SIP
- Embedded audio conference
- Embedded hotel features
- Mobile extension
- One number service
- Web call back
- ACD call statistics for multiple group
- Emergency/Alarm call service
- Simplified directory search and dial
- Custom MOH support
- VM to E-Mail forwarding
- Web administration
- Web user portal

Applications

- iPECS UCS
- iPECS ClickCall
- iPECS RCCV
- iPECS Attendant (Office/Hotel)
- iPECS IPCR
- iPECS CCS
- iPECS Report Plus
- iPECS NMS

Supported Terminals

- LIP-9071
- LIP-9000 Series
- LDP-9200 Series
- 150dh/GDC-800H/110dh (IP DECT)
- GDC-500H/480H (DECT)
- WIT-400HE

3rd Party Applications and Middleware

- Microsoft Lync/SfB
- Fidelio I/F
- Tiger TMS for hospitality solution
- 3rd party PMS Interface
- LAS for healthcare solution
- TAPI (3rd Party)
- RESTful API (SMDR. Clickcall)

System Capacity – KSUA/KSUI/KSUAD/KSUID + EKSU

		KSU	EKSU	Max
Trunks	**Max Ports**	**36/62/36/62**	**12**	**48/74/48/74**
	Analog/BRI trunk	12	12	24
	PRI/T1	-/30/-/30	-	-/30/-/30
	IP trunk(SIP/H.323)	16	-	16
	Remote Gateway	8	-	8
Extensions	**Max Ports**	**104*/104/108**/108**	**32**	**136/136/140/140**
	SLT	31/31/28/28	32	63/63/60/60
	Digital	24	24	48
	Hybrid(SLT or Digital)	23/23/16/16	24	47/47/40/40
	IP/MEX	32	-	32
	DECT	48	-	48
	UC Desktop / Mobile	32	-	32
	IP ATD	5	-	5
VM channel	Built-in	8	-	8
	with VVMU	16	-	16
VoIP channel	Built-in	8	-	8
	with VVMU	16	-	16
BHCC		-	-	14,000

* HYB(8) + DECT(48) + SLIB(16) + IP PHONE(32) = 104

** DSIB(12) + DECT(48) + SLIB(16) + IP PHONE(32) = 108

Interface & Standard

Item	Specification
LAN Interface	10/100Base-T Ethernet(IEEE 802.3) 1 port, 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(ºC) - 40(ºC)/32(ºF) - 104(ºF)
Humidity	0 - 80%(Non-condensing)

Dimension & Weight

Dimension W x H x D(mm)	KSU	307 x 294 x 126.6
	Expansion KSU	307 x 294 x 126.6
Weight(Kg)	KSU	2.03
	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)

System Components

Item	Board	Description
Trunk/Extension 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/E1/R2 or T1(30 ch or 24 ch) Interface Unit
	eMG80-BRIU2	2 BRI(2B+D) Interface Unit
	eMG80-WTIB4	4 Wireless Terminal Interface Board(4 Base station, 6 ch per base)
Function/Accessory Boards	eMG80-VVMU*	Resource Unit for Voice Mail, Voice Mail Storage and VoIP Channel Max VM/VoIP 4 ch/8 ch or 8 ch/4 ch, VM storage 1 hour default plus 15 hours by license – Licenses required for VM, VoIP channel and VM storage
	eMG80-MEMU	Memory Expansion Module Unit for VM(15 hours)
	eMG80-MEMU2	Memory Expansion Module Unit for VM(60 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)

* Both built-in DSP and VVMU's DSP of iPECS eMG80 are commonly used for VM and VoIP channels.(Max VM/VoIP 4 ch/8 ch or 8 ch/4 ch)

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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