Hybrid Communications Platform for SME, 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 SMEs to access productive applications in a simple and cost effective manner.

Seamless expandability for SMEs

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 KSU and one expansion KSU to configure a dynamic system. iPECS eMG80 delivers cost effective communications to small and growing businesses and affordable expandability to medium size businesses.

Cost effective and expandable VoIP technology

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

Easy and economical Built-in UC

iPECS UCS Standard server is built into the eMG80. Users can use video, IM, audio conference, visual voice mail, as well as voice calls on one platform.

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.

Multi-Tier Mobility

iPECS UCS mobile client, Mobile Extension, DECT, and Wi-Fi terminals are optimized with the iPECS eMG80.

KSU Components

Item	Description
KSUA	**Basic KSU** (4 CO, 1 DKT and 7 Hybrid Interfaces) Voice Mail (Default : 2 ch / 1 hr, Max : 12 ch / 32 hrs) VoIP (Default : 2 ch, Max : 16 ch) Built-in UCS Desktop / Mobile, Built-in Clickcall : Default 2 / 2, 2 copy
KSUAD	**Basic KSU** (4 CO, 8 DKT and 4 SLT Interfaces) Voice Mail (Default : 2 ch / 1 hr, Max : 12 ch / 32 hrs) VoIP (Default : 2 ch, Max : 16 ch) Built-in UCS Desktop / Mobile, Built-in Clickcall : Default 2 / 2, 2 copy
KSUI	**Basic KSU** (1 DKT and 7 Hybrid Interfaces) Voice Mail (Default : 2 ch / 1 hr, Max : 12 ch / 32 hrs) VoIP (Default : 2 ch, Max : 16 ch) Built-in UCS Desktop / Mobile, Built-in Clickcall : Default 2 / 2, 2 copy
KSUID	**Basic KSU** (8 DKT and 4 SLT Interfaces) Voice Mail (Default : 2 ch / 1 hr, Max : 12 ch / 32 hrs) VoIP (Default : 2 ch, Max : 16 ch) Built-in UCS Desktop / Mobile, Built-in Clickcall : Default 2 / 2, 2 copy
EKSU	**Expansion KSU** 4 CO and 8 Hybrid

Key Features

- Built-in iPECS UCS
- Built-in Clickcall
- Enhanced AA/VM
- T-NET as LCM to UCP / eMG800
- Full Digit Conversion
- Multiple Call handling
- Emergency paging
- Emergency call monitoring and recording
- One number service
- Web call back
- SMDR (Station Message Detail Recording)
- Multiple language support

Applications

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

Supported Terminals

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

3rd Party Applications

- TAPI (3rd Party)
- Fidelio I/F
- Microsoft Lync

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 E1R2 or T1/PRI (30 or 23 channels) Interface Unit
	eMG80-BRIU2	2 BRI (2B+D) Interface Unit
	eMG80-WTIB4	4 Wireless Terminal Interface Board (24 channels)
Function / Accessory Boards	eMG80-VVMU	8 VoIP, 4 VM channels, 1 hour by 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
	PSU	Power Supply Unit, pre-installed in each cabinet
	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)
Built-in AA/VM VVMU	8 ch (2 by default, 6 by license), 1 hour / 15 hours(with MEMU) 4 ch, 1 hr by default, 8 ch / 16 hrs need channel and memory license
DECT Phones	48
Built-in VoIP channels	Max. 8 ch (2 by default, 6 by license)
VVMU VoIP channels	8 ch by license
IP Stations	32 Stations
SIP Trunks	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(ºC) - 40(ºC) / 32(ºF) - 104(ºF)
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	2.03
	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)

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