

KSU

(iPECS eMG100HW-TRA-01-001)

30 Aug, 2019

REVISION HISTORY

ISSUE	DATE	DESCRIPTION OF CHANGES
0.1	25-Jul-19	Preliminary release
0.2	23-Aug-19	Delete duplicated slide, Error correction
0.3	30-Aug-19	Installation drawing Changed

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Overview

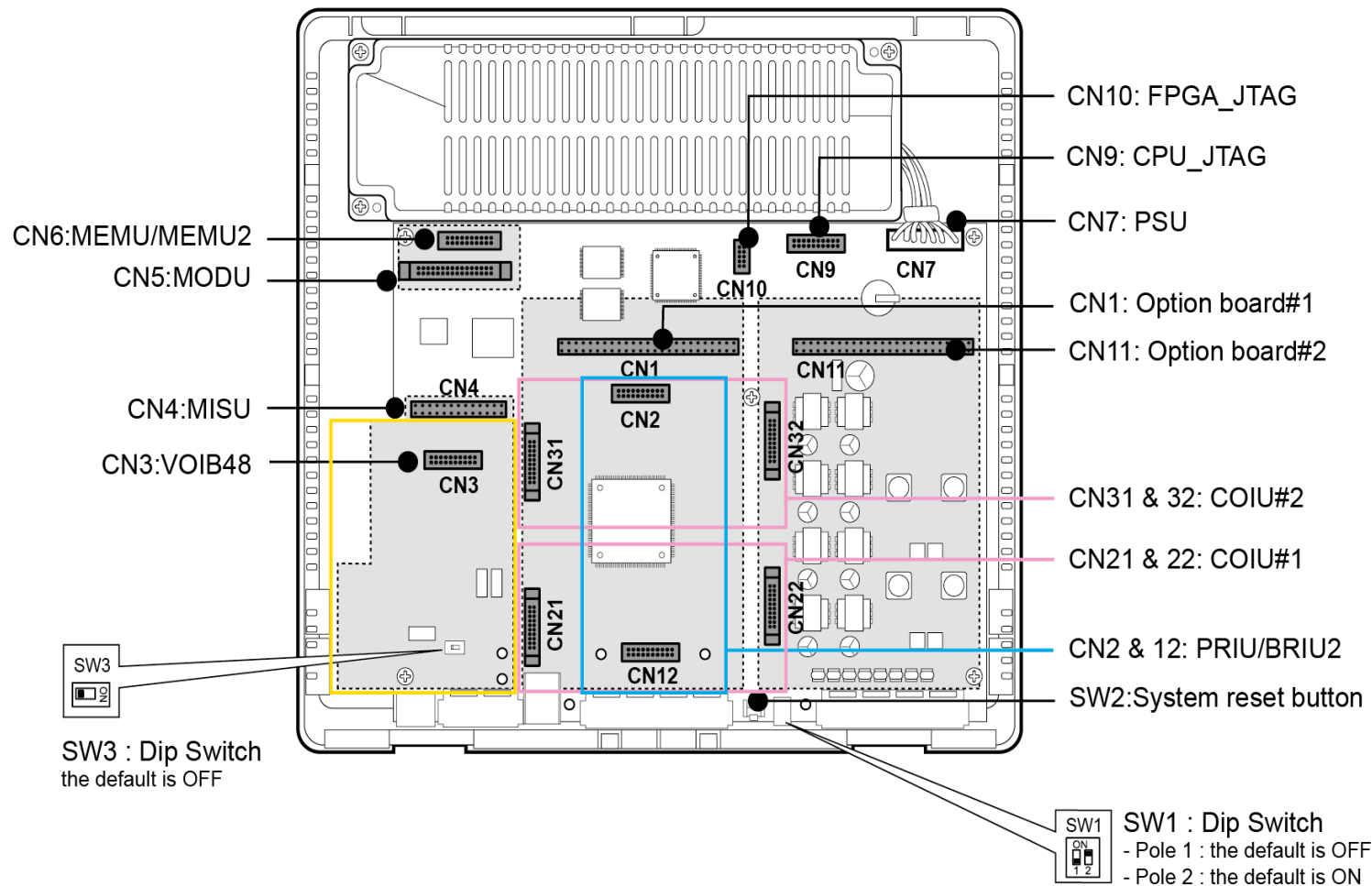
2 types of basic KSU

1'st KSU		2'nd KSU
KSUD 	• 8D+4S • 2 Universal slots for extension options • 2 dedicated COIU slots • 1 dedicated slot for BRIU/PRIU • 1 VOIB48 slot • 1 MISU, 1 MEMU, 1 MODU slot	 KSUD or KSUS
KSUS 	• 2D+6S • 2 Universal slots for extension options • 2 dedicated COIU slots • 1 dedicated slot for BRIU/PRIU • 1 VOIB48 slot • 1 MISU, 1 MEMU, 1 MODU slot	

Select best-fit KSU for your country

Overview

KSU Structure



System Capacity

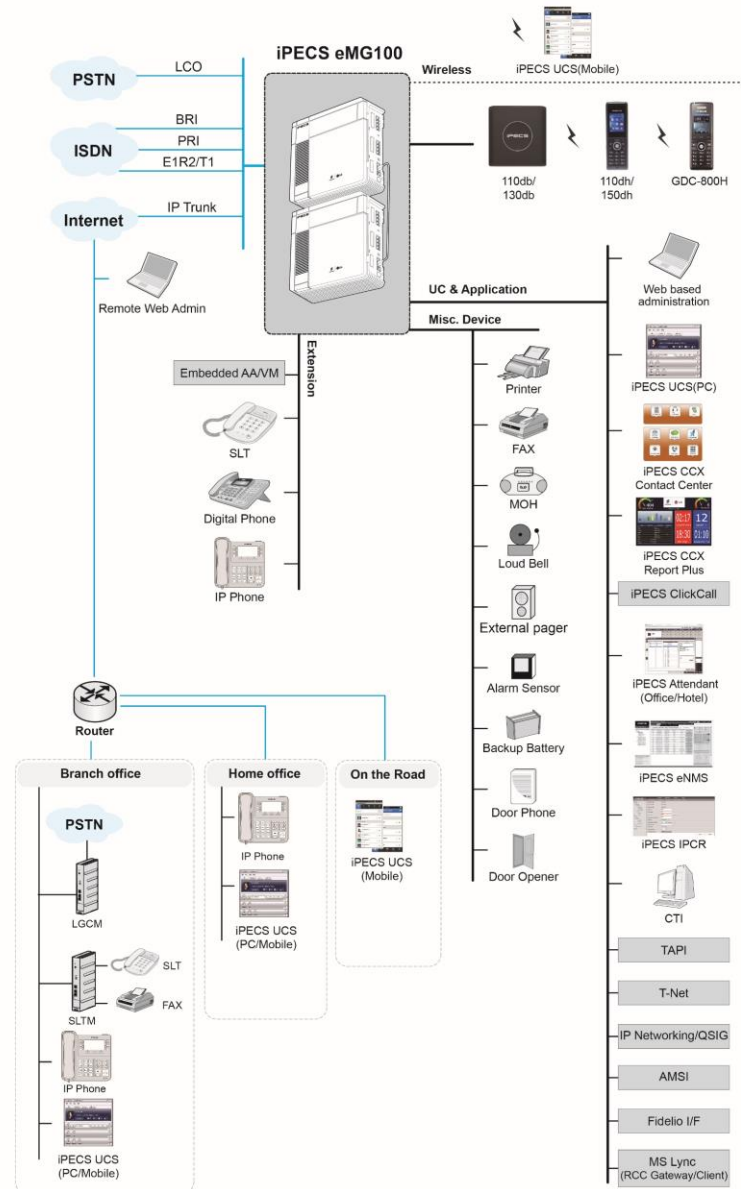
KSUD

Category	Item	1 st KSU	2 nd KSU	Max	Remark
Trunk	Max Port	74	16	74	
	Analog	16	16	32	
	PRI / T1 / E1	30	-	30	
	IP (SIP/H.323)	64	16	74	MBU(VOIU) : 16, VOIB48 : 48
Extension	Max Port	140 (44)	44 (44)	140 (88)	() : SLT + DKTU
	SLT	36	36	72	
	Digital	24	24	48	
	Hybrid	-	-	-	
	IP	64	-	64	
	DECT	-	-	-	
Voice mail	Max Port	16	16	32	MBU(VMIU) : 16

KSUS

Category	Item	1 st KSU	2 nd KSU	Max	Remark
Trunk	Max Port	74	16	74	
	Analog	16	16	32	
	PRI / T1 / E1	30	-	30	
	IP (SIP/H.323)	64	16	74	MBU(VOIU) : 16, VOIB48 : 48
Extension	Max Port	140 (40)	40 (40)	140 (80)	() : SLT + DKTU
	SLT	38	38	76	
	Digital	18	18	36	
	Hybrid	-	-	-	
	IP	64	-	64	
	DECT	-	-	-	
Voice mail	Max Port	16	16	32	MBU(VMIU) : 16

System Connection Diagram



eMG100 vs. eMG80 Comparison

Item		iPECS-eMG80	iPECS-eMG100	Remark
System Architecture		BKSU + EKSU	BKSU + BKSU	
Max capacity (CO)		12/12	16/16	Analog CO
Max capacity (Extension)		32/32	44/44	Extension: SLT + DKTU
Built-in VM (VMIU - MBU)		8	32	Default : 4/4 (basic / expansion)
Built-in VOIP (VOIU - MBU)		8	32	Default : 2/2(basic / expansion)
VOIP option board (VOIB)		8 (VVMU)	48 (VOIB48)	eMG80: default (0), eMG100: default (8)
VM option board (VMIB)		8 (VVMU)	-	eMG80: default (0)
BKSU	LAN	1	1	100 Mbps
	USB	1	-	2.0 Host
	Int Music	1	1	
	Ext Music	1	1	
	RS-232	1	-	eMG100 : internal 4 pin connector
	Ext Paging	1	1	
	Relay	2	1	
	Alarm	1	1	
MISU	USB	-	1	
	Ext Music	-	1	
	RS-232	-	1	RJ45
	Ext Paging	-	1	
	Relay	-	3	
	Alarm	-	1	

Board & Product List

Item	Model / Board	Description
KSU (Key Service Unit)	KSUD (MBUD)	8DKT and 4 SLT Interfaces Voice Mail (4 channels / 2 hour default, 16 channels / 62 hours Max.) VoIP (2 channels default, 16 channel Max.)
	KSUS (MBUS)	2 DKT and 6 SLT Interfaces Voice Mail (4 channels / 2 hour default, 16 channels / 62 hours Max.) VoIP (2 channels default, 16 channels Max.)
	KSUSC (MBUSC)	2 DKT and 6 SLT Interfaces Voice Mail (2 channels / 2 hour default, 16 channels / 62 hours Max.) VoIP (0 channel default, 16 channels Max.)
PSU	PSU	Power Supply Unit, pre-installed in each cabinet
Trunk Interface Boards	eMG100-COIU2	2 CO Line Interface Board
	eMG100-COIU4	4 CO Line Interface Board
	eMG100-BRIU1	1 BRI (2B chs) Interface Board
	eMG100-BRIU2	2 BRI (4B chs) Interface Board
	eMG100-BRIU4	4 BRI (8B chs) Interface Board
	eMG100-PRIU	1 PRI/E1R2 or T1 (30 or 24 channels) Interface Unit
Extension Interface Boards	eMG100-SLIB8	8 SLT Interface Board
	eMG100-SLIU8	8 SLT Interface Unit
	eMG100-DTIB8	8 DKT Interface Board
Function Boards	eMG100-VOIB48	48 VoIP Interface Board
	eMG100-MEMU	Memory Expansion Module Unit for VM (15 hours expansion)
	eMG100-MEMU2	Memory Expansion Module Unit for VM (60 hours expansion)
	eMG100-MODU	Modem Unit
	eMG100-MISU	Miscellaneous function Unit
RMB	eMG100-RMB	19" Rack Mounting Bracket
KCC	eMG100-KCC	KSU Cord Cover
BATT Cable	eMG100-BATTCABLE	KSU Battery Back-up Cable
Exp. Cable	eMG100-EXPCABLE	KSU Expansion Cable

Board & Product List

The mountable Option board table

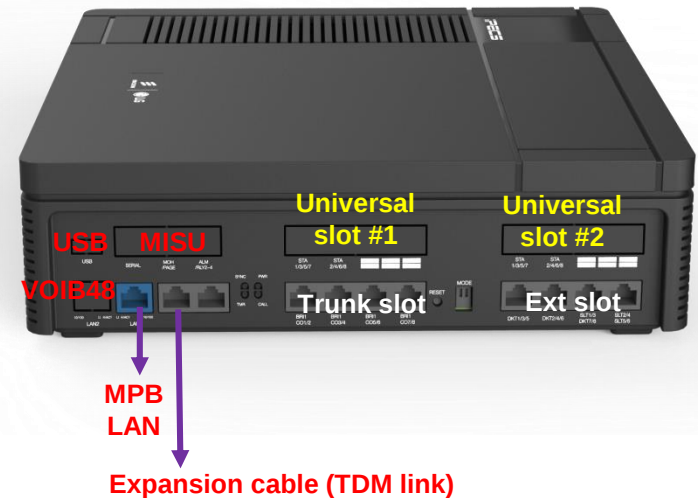
Option Board		KSUD	KSUS	2'nd KSU
Trunk Interface Boards	eMG100-COIU2	Y	Y	Y
	eMG100-COIU4	Y	Y	Y
	eMG100-BRIU1	Y	Y	N
	eMG100-BRIU2	Y	Y	N
	eMG100-BRIU4	Y	Y	N
	eMG100-PRIU	Y	Y	N
Extension Interface Boards	eMG100-SLIB8	Y	Y	Y
	eMG100-SLIU8	Y	Y	Y
	eMG100-DTIB8	Y	Y	Y
Function Boards	eMG100-VOIB48	Y	Y	N
	eMG100-MEMU	Y	Y	Y
	eMG100-MEMU2	Y	Y	Y
	eMG100-MODU	Y	Y	N
	eMG100-MISU	Y	Y	N

Board configuration

HW

BKSU	
Ext slot	KSUD : DSIB12(8D+4S) KSUS : DSIB8(2D+6S)
Trunk slot	Two of COIU2/4 Or one PRIU, BRIU1/2/4
Universal slot 1	Basic : SLIB8, DTIB8 Option : SLIU8, COIU2/4
Universal slot 2	Basic : SLIB8, DTIB8 Option : SLIU8, COIU2/4

OPTION	
MISU	MISU 1 USB, 1 RS232C, 3 Relay, 1 Alarm port 1 External Page, 1 External MOH
VOIB48	VOIB48 (max 48ch)

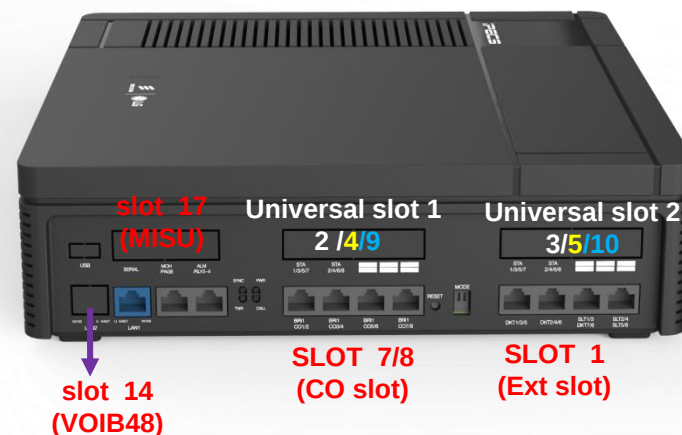


Board configuration

Logical slot numbering

BKSU	
Slot 1	KSUD: DSIB12(8D+4S), KSUS: DSIB8(2D+6S)
Slot 2	SLIB8, DTIB8 (Universal slot 1 - basic)
Slot 3	SLIB8, DTIB8 (Universal slot 2 - basic)
Slot 4	SLIU8 (Universal slot 1 - extension option)
Slot 5	SLIU8 (Universal slot 2 - extension option)
Slot 7	LCOB2/4, BRIB1/2/4 or PRIB
Slot 8	LCOB2/4
Slot 9	LCOB2/4 (Universal slot 1 - CO option)
Slot 10	LCOB2/4 (Universal slot 2 - CO option)

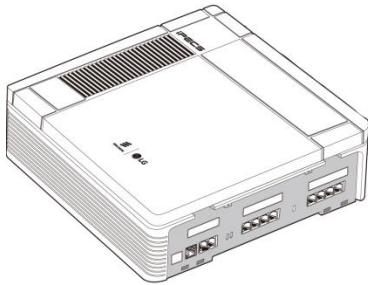
OPTION	
Slot 13	VOIU (MBU built-in)
Slot 14	VOIB48
Slot 15	VMIU (MBU built-in)
Slot 17	MISU (USB, RS232C, Relay, External Page, Alarm port)



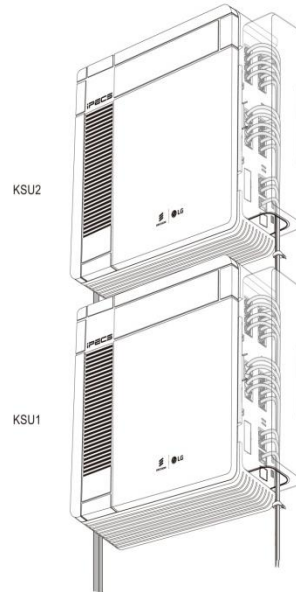
KSU Installation

3 kinds of flexible installation

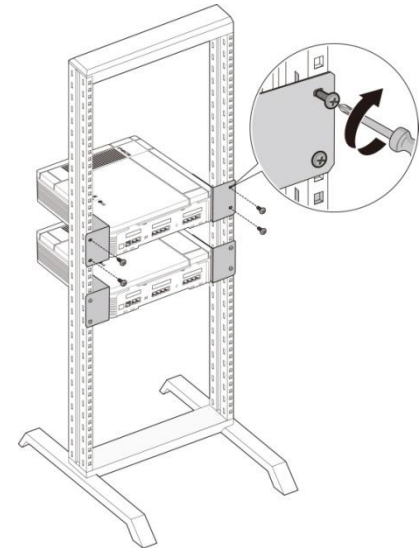
- **Desktop**
 - * **No 1'st KSU/ 2'nd KSU stacking on desktop**
- **Wall mounting**
- **19" rack mounting** – using a 19" rack mounting bracket



Desk Top



Wall Mount

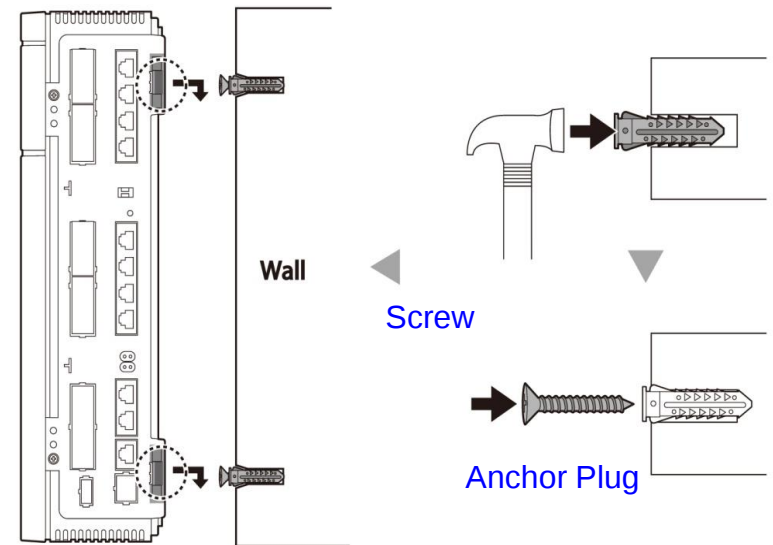
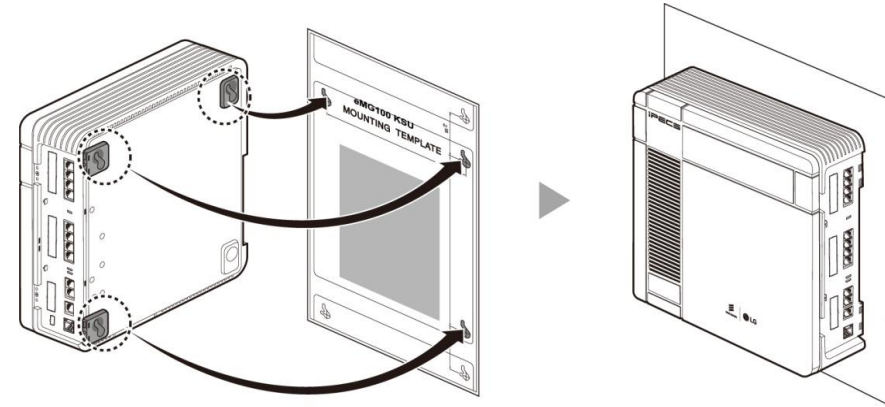


19" Rack Mount

KSU Installation

Wall Mounting

1. Install 3 anchor plugs in the wall using the mounting template included for accurate placement.
2. Insert the 3 screws into the anchor plug.
3. Hook the KSU onto the screws, making sure that the System slides down securely.



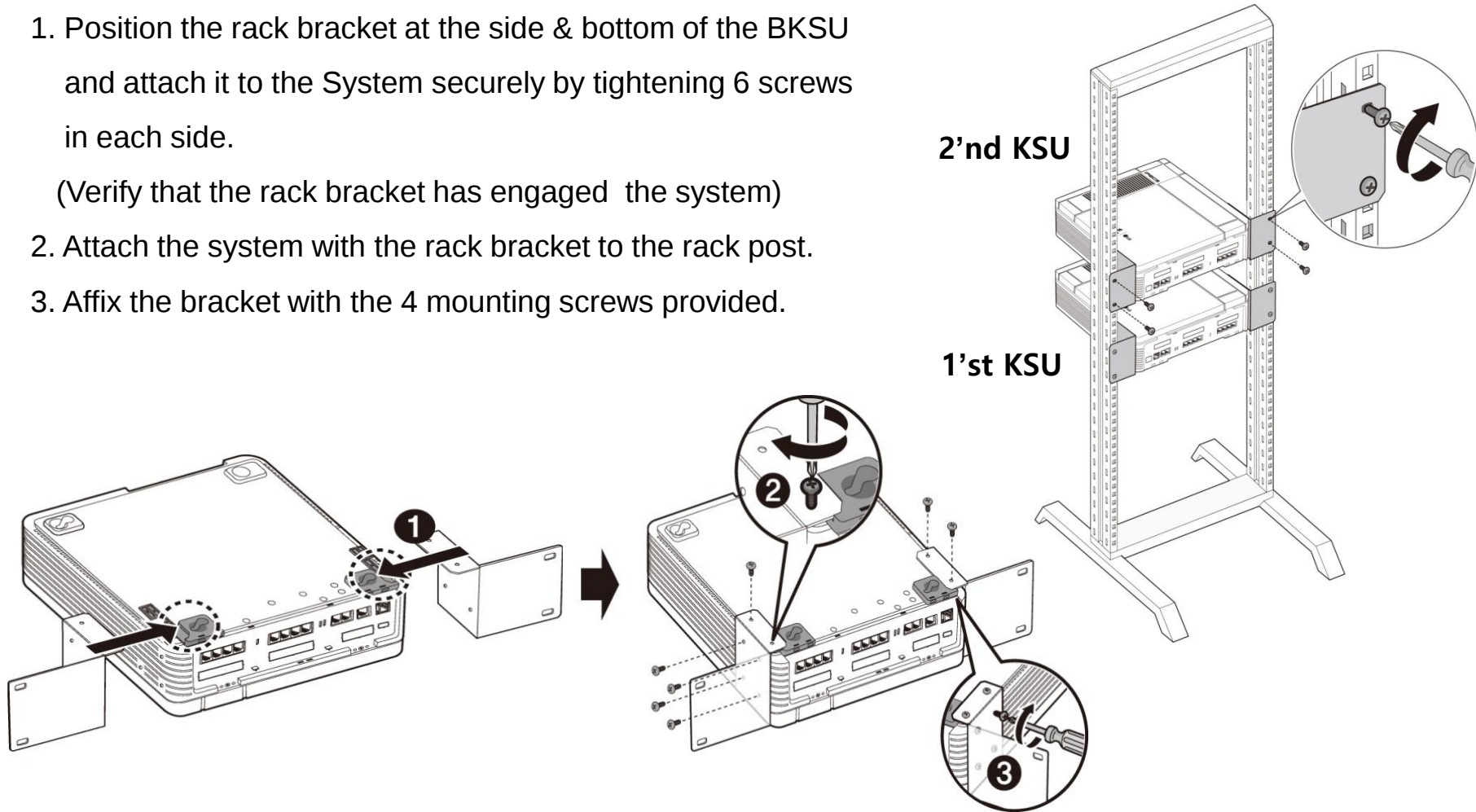
KSU Installation

Rack Mounting

1. Position the rack bracket at the side & bottom of the BKSU and attach it to the System securely by tightening 6 screws in each side.

(Verify that the rack bracket has engaged the system)

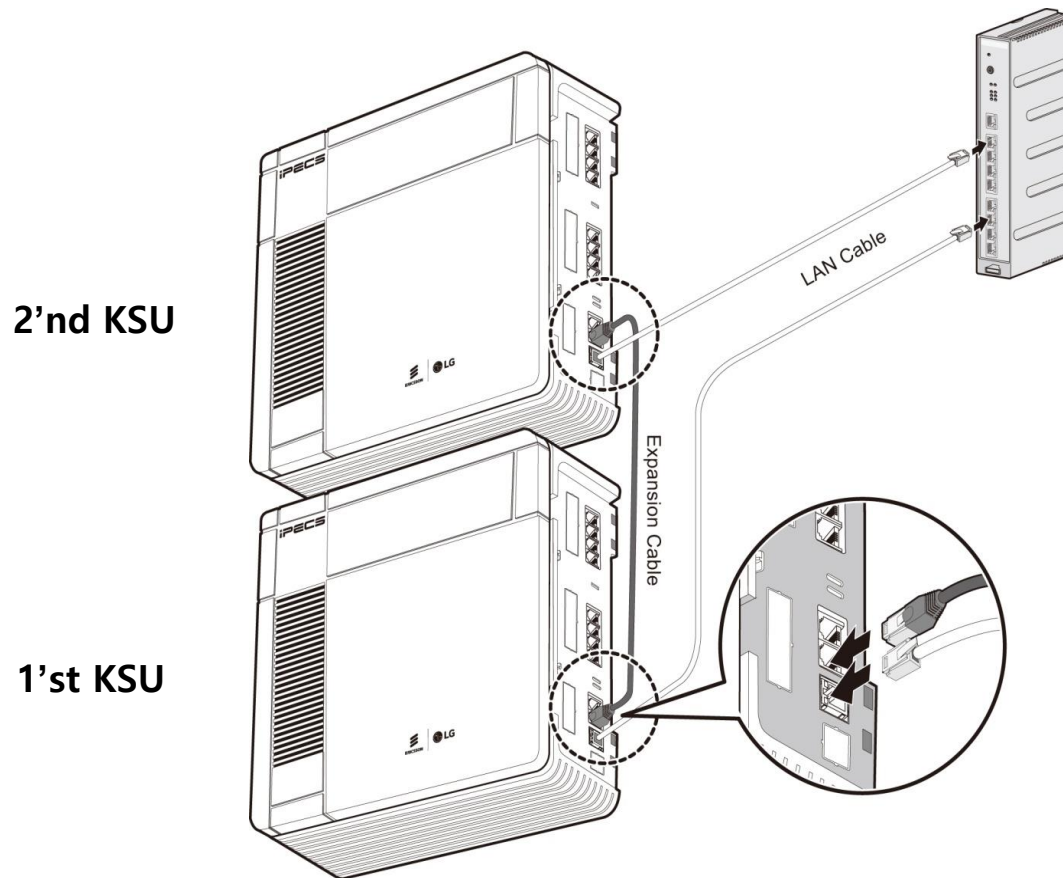
2. Attach the system with the rack bracket to the rack post.
3. Affix the bracket with the 4 mounting screws provided.



KSU Installation

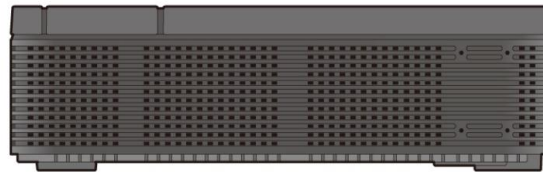
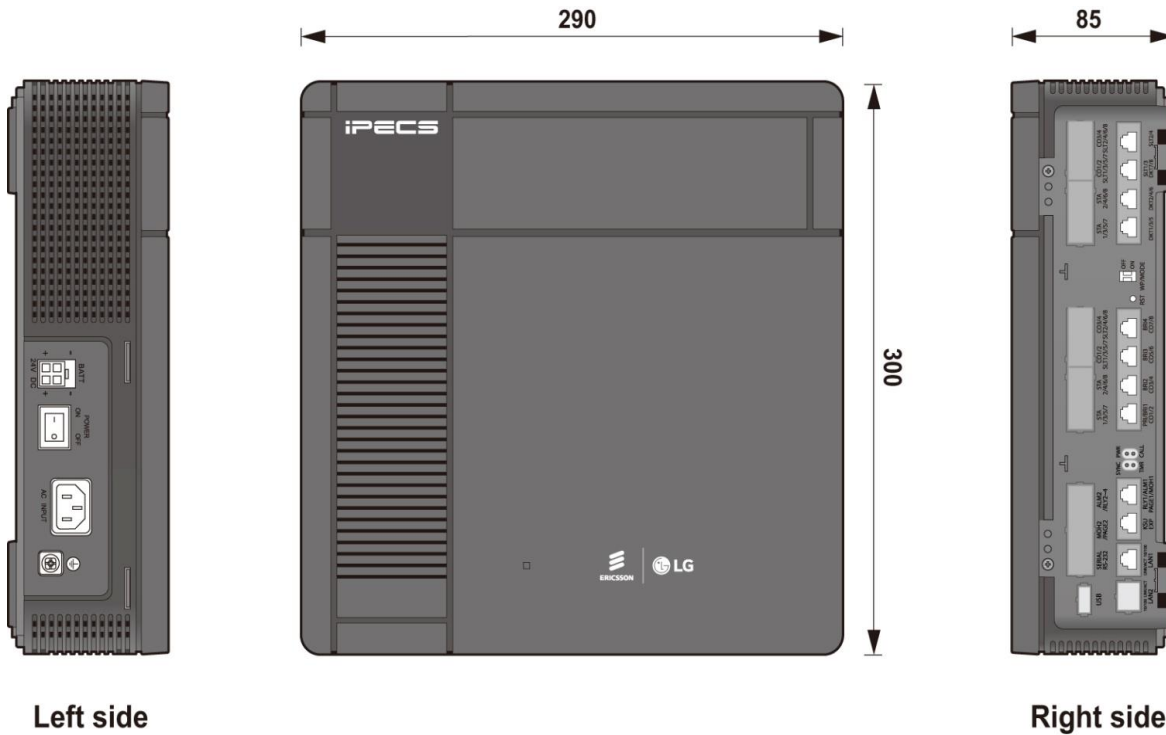
Connecting the 2'nd KSU

1. The dedicated cable must be used for Expansion cable
2. Connect the LAN Cable for LAN connection



KSU Exterior and Dimension

Front & Rear side of KSU



- 19 inches Rack / Wall Mountable
- Compact Size
[85(H)/290(W)/300(D)mm]
- PSU at the left side of KSU

PSU & Backup battery Installation

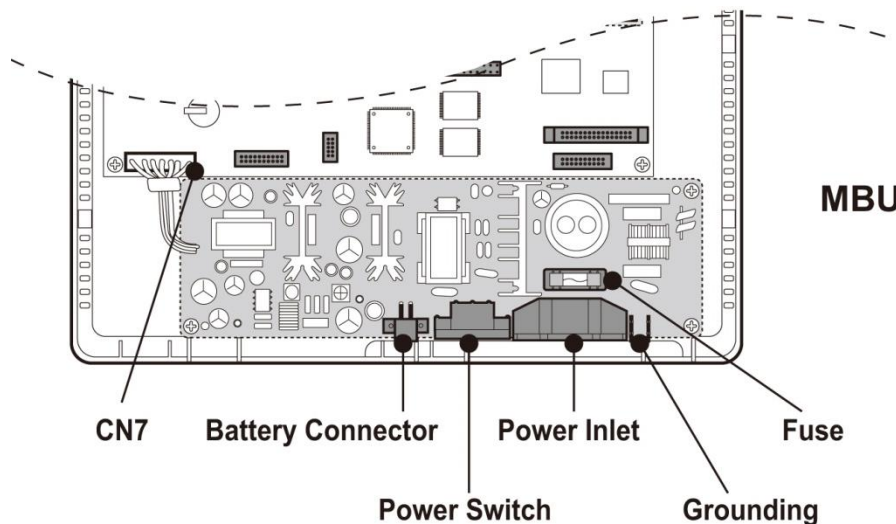
PSU Spec.

AC INPUT VOLTAGE AND FUSE RATING

RANGE OF INPUT VOLTAGE	CONNECT TO	FUSE RATINGS
100V AC ~ 240V AC	CN7 on the MBU/EMBU	2A @ 250V

PSU CAPACITY

PSU TYPE	+5V DC	+27V DC	+30V DC
PSU (SMPS)	3.0A	200mA(Battery charge)	1.5A

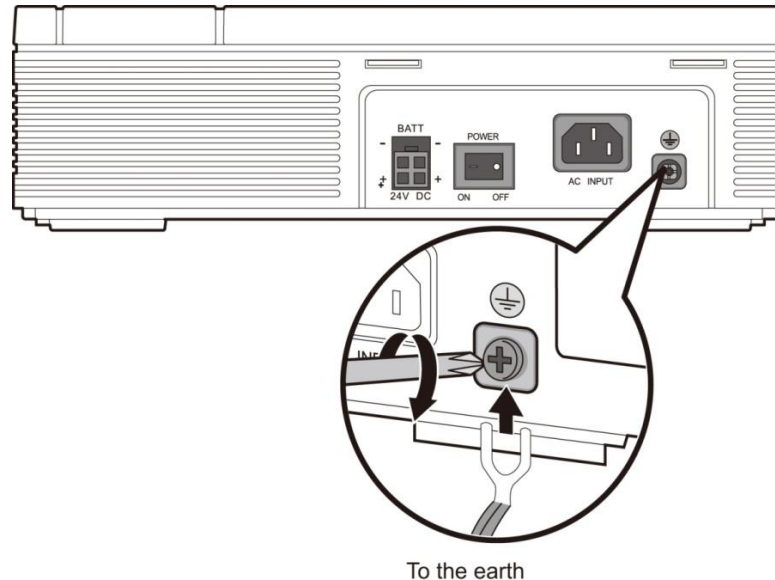


The PSU is located at the left in the KSU and is pre-installed by default

PSU & Backup battery Installation

Frame Ground

1. Turn the grounding screw counter clockwise with screwdriver to loosen.
2. Insert the grounding wire and tighten the screw with screwdriver.
3. Then connect the grounding wire to an appropriate ground source



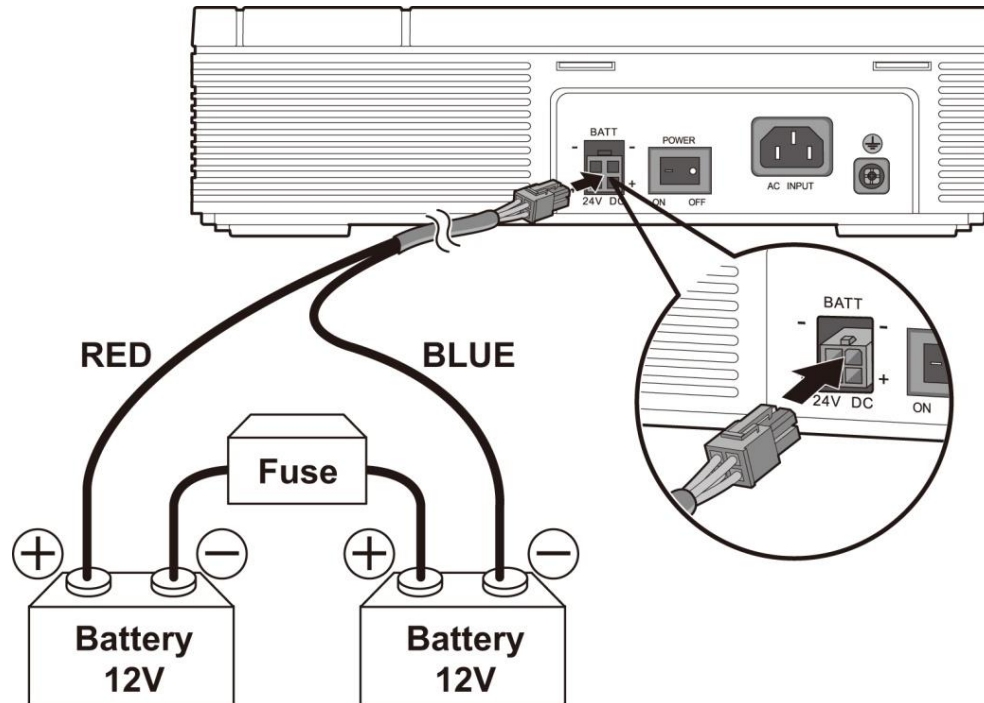
CAUTION

- ✓ For ground wire,
It must be more than UL 1015 AWG#18 (1.0mm).
It is recommended that the ground wire is shorter than 1m (3.28ft).
- ✓ Proper grounding is very important to protect the System from external noise or to reduce the risk of electrocution in the event of lightning strike.

PSU & Backup battery Installation

External Back up Battery

1. Connect the backup battery cable with 2 identical batteries (12VDC x 2ea).
2. Connect the external back up battery cable to the battery connector of the PSU.



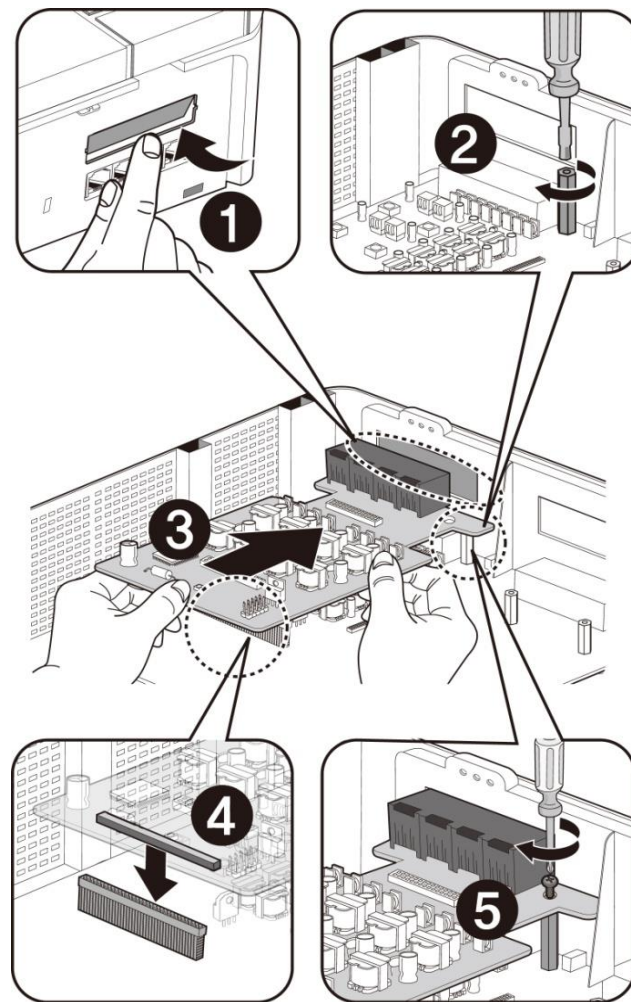
CAUTION

- ✓ It is recommended to use an external backup **battery fuse** between the battery and the System
- ✓ Recommended battery capacity is more than 24V/20AH MF
- ✓ Carefully check the battery polarity with cable colors (Red and Blue)
- ✓ Do not short out the external batteries and cables

Option Board Installation

Remove the KSU and Cord cover.

1. For an Interface board, remove the modular jack cover plate
2. Insert a standoff through the MBU and into the cabinet. Tighten the standoffs with Wrench
3. Holding the board, insert the board carefully in the direction of the arrow.
4. Carefully align the connector on the board with the mating MBU connector pins, then push the board down to fully engage the connectors.
5. To securely fix the board in place, insert and tighten a screw



Terminal Components

Models	eMG80	eMG100	eMG800	UCP	vUCP
Digital Phone					
LDP-7000	Yes	Yes	Yes	Yes	Yes
LDP-7200	Yes	Yes	-	-	-
LDP-9000	Yes	Yes	Yes	Yes	Yes
LDP-9200	Yes	Yes	Yes	Yes	Yes
IP Phone (IPKTS)					
LIP-7000	Yes	Yes	Yes	Yes	Yes
LIP-8000 / 8000E	Yes	Yes	Yes	Yes	Yes
LIP-9000	Yes	Yes	Yes	Yes	Yes
LIP-9071	Yes	Yes	Yes	Yes	Yes
WiFi					
WIT-400HE	Yes	Yes	Yes	Yes	Yes
DECT					
GDC-450H	Yes	-	Yes	Yes	Yes
GDC-480H	Yes	-	Yes	Yes	Yes
GDC-500H	Yes	-	Yes	Yes	Yes
IP- DECT					
150dh	Yes	Yes	Yes	Yes	Yes
GDC-800H	Yes	Yes	Yes	Yes	Yes
110dh	Yes	Yes	Yes	Yes	Yes
Accessories					
EHSA	Yes	Yes	Yes	Yes	Yes

Terminal Components

Digital Terminals

MODEL	DESCRIPTION
LDP-7004N	4 Flexible Button Normal
LDP-7004D	4 Flexible Button Display
LDP-7008D	8 Flexible Button Display
LDP-7016D	16 Flexible Button Display
LDP-7024D	24 Flexible Button Display
LDP-7024LD	24 Flexible Button Large Display
LDP-7048DSS	48 Button DSS/DLS Console
LDP-DPB	Door Phone Box
LDP-7208D	8 Flexible Button Display
LDP-7224D	24 Flexible Button Display

LDP 7000 Series



LDP-7004N



LDP-7004D



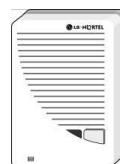
LDP-48DSS



LDP-7008D



LDP-7016D



LDP-DPB



LDP-7024D



LDP-7024LD

Terminal Components

Digital Terminals

MODEL	DESCRIPTION
LDP-9008D	8 Flexible Button Display
LDP-9030D	30 Flexible Button Display
LDP-9048DSS	48 Flexible Button DSS Console

LDP 9000 Series



LDP-9008D



LDP-9030D



LDP-9048DSS

MODEL	DESCRIPTION
LDP-9208D	8 Flexible Button Display
LDP-9224D	24 Flexible Button Display
LDP-9224DF	24 Flexible Button, Full duplex
LDP-9248DSS	48 Flexible Button DSS Console

LDP 9200 Series



LDP-9208D



LDP-9224D



LDP-9224DF



LDP-9248DSS

Terminal Components

IP Terminals

MODEL	DESCRIPTION
LIP-8002E/2AEA	4 Flexible Button Display
LIP-8008E	8 Flexible Button Display
LIP-8012E	12 Flexible Button Display
LIP-8024E	24 Flexible Button Display
LIP-8040E	10 Flexible Button Large Display
LIP-8050E	5 Flexible Button Large Display
LIP-8012DSS	12 Button DSS Console
LIP-8012LSS	12 Button LSS Console
LIP-8048DSS	48 Button DSS Console

LIP-8000E Series



LIP-8002E/2AE



LIP-8008E



LIP-8012E



LIP-8024E



LIP-8040E



LIP-8050E



LIP-8012DSS



LIP-8012LSS



LIP-8048DSS

Terminal Components

IP Terminals

MODEL	DESCRIPTION
LIP-9002	4 Flexible Button No Display
LIP-9010	5 Flexible Button Display
LIP-9020	10 Flexible Button Display
LIP-9030	8 Flexible Button(3 pages) Display
LIP-9040	12 Flexible Button(3 pages) Display
LIP-9070/71	Premium 7 Inch Display
LIP-9012DSS	12 Button DSS Console
LIP-9024DSS	24 Button DSS Console
LIP-9024LSS	12 Button(2 pages) LSS Console
LIP-9048DSS	48 Button DSS Console

LIP-9000 Series



LIP-9002



LIP-9010



LIP-9020



LIP-9030



LIP-9040



LIP-9070/71



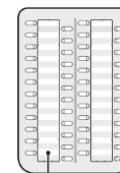
LIP-9012DSS



LIP-9024DSS



LIP-9024LSS



LIP-9048DSS

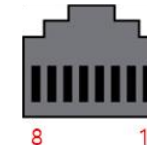
Modular Jack Pin Assignment

iPECS eMG100 KSUD/ KSUS : RJ-45 Pin out

KSUD / KSUS

	Trunk option (COIU2/ COIU4)			
	Port 1	Port 2	Port 3	Port 4
Pin 8	CO1 RING	CO3 RING	CO5 RING	CO7 RING
Pin 7	CO1 TIP	CO3 TIP	CO5 TIP	CO7 TIP
Pin 6	N.C	N.C	N.C	N.C
Pin 5	CO2 RING	CO4 RING	CO6 RING	CO8 RING
Pin 4	CO2 TIP	CO4 TIP	CO6 TIP	CO8 TIP
Pin 3	N.C	N.C	N.C	N.C
Pin 2	N.C	N.C	N.C	N.C
Pin 1	N.C	N.C	N.C	N.C
	Trunk option (PRIU) - TE Connection			
	Port 1	Port 2	Port 3	Port 4
Pin 8	N.C	Not used		
Pin 7	N.C			
Pin 6	N.C			
Pin 5	TX-			
Pin 4	TX-			
Pin 3	N.C			
Pin 2	RX-			
Pin 1	RX+			
	Trunk option (BRIU1/ BRIU2/ BRIU4) - TE Connection			
	Port 1	Port 2	Port 3	Port 4
Pin 8	N.C	N.C	N.C	N.C
Pin 7	N.C	N.C	N.C	N.C
Pin 6	TX-	TX-	TX-	TX-
Pin 5	RX-	RX-	RX-	RX-
Pin 4	RX+	RX+	RX+	RX+
Pin 3	TX+	TX+	TX+	TX+
Pin 2	N.C	N.C	N.C	N.C
Pin 1	N.C	N.C	N.C	N.C

KSUD - Basic Extension (8D + 4S)				
	Port 1	Port 2	Port 3	Port 4
Pin 8	DKT3 TIP	DKT4 TIP	DKT7 TIP	N.C
Pin 7	DKT3 RING	DKT4 RING	DKT7 RING	N.C
Pin 6	N.C	N.C	SLT3 TIP	SLT4 TIP
Pin 5	DKT1 TIP	DKT2 TIP	SLT1 TIP	SLT2 TIP
Pin 4	DKT1 RING	DKT2 RING	SLT1 RING	SLT2 RING
Pin 3	N.C	N.C	SLT3 RING	SLT4 RING
Pin 2	DKT5 TIP	DKT6 TIP	DKT8 RING	N.C
Pin 1	DKT5 RING	DKT6 RING	DKT8 RING	N.C
KSUS - Basic Extension (2D + 6S)				
	Port 1	Port 2	Port 3	Port 4
Pin 8	N.C	N.C	N.C	SLT5 TIP
Pin 7	N.C	N.C	N.C	SLT5 RING
Pin 6	N.C	N.C	SLT3 TIP	SLT4 TIP
Pin 5	DKT1 TIP	DKT2 TIP	SLT1 TIP	SLT2 TIP
Pin 4	DKT1 RING	DKT2 RING	SLT1 RING	SLT2 RING
Pin 3	N.C	N.C	SLT3 RING	SLT4 RING
Pin 2	N.C	N.C	N.C	SLT6 TIP
Pin 1	N.C	N.C	N.C	SLT6 RING
EXP BUS & MISC for KSU				
	Port 1	Port 2		
Pin 8	FRAME RX	RLY1 TIP		
Pin 7	FRAME TX	RLY1 RING		
Pin 6	TX ISC6	ALM1 TIP		
Pin 5	GND	ALM1 RING		
Pin 4	GND	PAGE1 TIP		
Pin 3	TX ISC5	PAGE1 RING		
Pin 2	RX ISC6	MOH1 TIP		
Pin 1	RX ISC5	MOH1 RING		



Optional Slot (Universal Slot) : RJ-45 Pin out

Option board

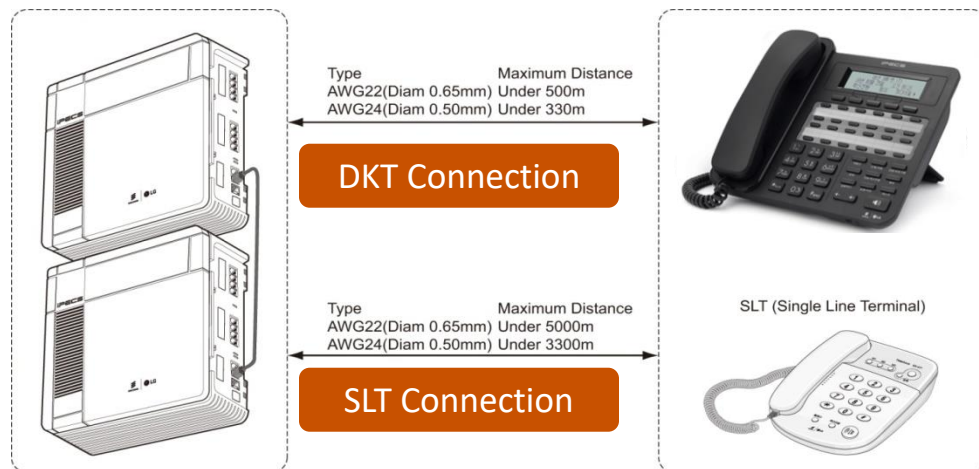
Extension option (DTIB8) - with COIU4				
	Port 1	Port 2	Port 3	Port 4
Pin 8	DKT3 TIP	DKT4 TIP	CO1 RING	CO3 RING
Pin 7	DKT3 RING	DKT4 RING	CO1 TIP	CO3 TIP
Pin 6	DKT7 TIP	DKT8 TIP	N.C	N.C
Pin 5	DKT1 TIP	DKT2 TIP	CO2 RING	CO4 RING
Pin 4	DKT1 RING	DKT2 RING	CO2 TIP	CO4 TIP
Pin 3	DKT7 RING	DKT8 RING	N.C	N.C
Pin 2	DKT5 TIP	DKT6 TIP	N.C	N.C
Pin 1	DKT5 RING	DKT6 RING	N.C	N.C
Extension option (SLIB8) - with COIU4				
	Port 1	Port 2	Port 3	Port 4
Pin 8	SLT3 TIP	SLT4 TIP	CO1 RING	CO3 RING
Pin 7	SLT3 RING	SLT4 RING	CO1 TIP	CO3 TIP
Pin 6	SLT7 TIP	SLT8 TIP	N.C	N.C
Pin 5	SLT1 TIP	SLT2 TIP	CO2 RING	CO4 RING
Pin 4	SLT1 RING	SLT2 RING	CO2 TIP	CO4 TIP
Pin 3	SLT7 RING	SLT8 RING	N.C	N.C
Pin 2	SLT5 TIP	SLT6 TIP	N.C	N.C
Pin 1	SLT5 RING	SLT6 RING	N.C	N.C
MISU option				
	Port 1	Port 2	Port 3	
Pin 8	N.C	MOH2 TIP	RLY2 RING	
Pin 7	N.C	MOH2 RING	RLY2 TIP	
Pin 6	UART RXD	N.C	RLY3 RING	
Pin 5	GND	PAGE2 TIP	RLY3 TIP	
Pin 4	GND	PAGE2 RING	RLY4 RING	
Pin 3	UART TXD	N.C	RLY4 TIP	
Pin 2	N.C	N.C	ALM2 TIP	
Pin 1	N.C	N.C	ALM2 RING	

Extension option (DTIB8) - with SLIU8				
	Port 1	Port 2	Port 3	Port 4
Pin 8	DKT3 TIP	DKT4 TIP	SLT3 TIP	SLT4 TIP
Pin 7	DKT3 RING	DKT4 RING	SLT3 RING	SLT4 RING
Pin 6	DKT7 TIP	DKT8 TIP	SLT7 TIP	SLT8 TIP
Pin 5	DKT1 TIP	DKT2 TIP	SLT1 TIP	SLT2 TIP
Pin 4	DKT1 RING	DKT2 RING	SLT1 RING	SLT2 RING
Pin 3	DKT7 RING	DKT8 RING	SLT7 RING	SLT8 RING
Pin 2	DKT5 TIP	DKT6 TIP	SLT5 TIP	SLT6 TIP
Pin 1	DKT5 RING	DKT6 RING	SLT5 RING	SLT6 RING
Extension option (SLIB8) - with SLIU8				
	Port 1	Port 2	Port 3	Port 4
Pin 8	SLT3 TIP	SLT4 TIP	SLT11 TIP	SLT12 TIP
Pin 7	SLT3 RING	SLT4 RING	SLT11 RING	SLT12 RING
Pin 6	SLT7 TIP	SLT8 TIP	SLT15 TIP	SLT16 TIP
Pin 5	SLT1 TIP	SLT2 TIP	SLT9 TIP	SLT10 TIP
Pin 4	SLT1 RING	SLT2 RING	SLT9 RING	SLT10 RING
Pin 3	SLT7 RING	SLT8 RING	SLT15 RING	SLT16 RING
Pin 2	SLT5 TIP	SLT6 TIP	SLT13 TIP	SLT14 TIP
Pin 1	SLT5 RING	SLT6 RING	SLT13 RING	SLT14 RING
Pin (RJ-45)		Color		
Pin 8		Brown		
Pin 7		White/ Brown		
Pin 6		Green		
Pin 5		White/ Blue		
Pin 4		Blue		
Pin 3		White/ Green		
Pin 2		Orange		
Pin 1		White/ Orange		

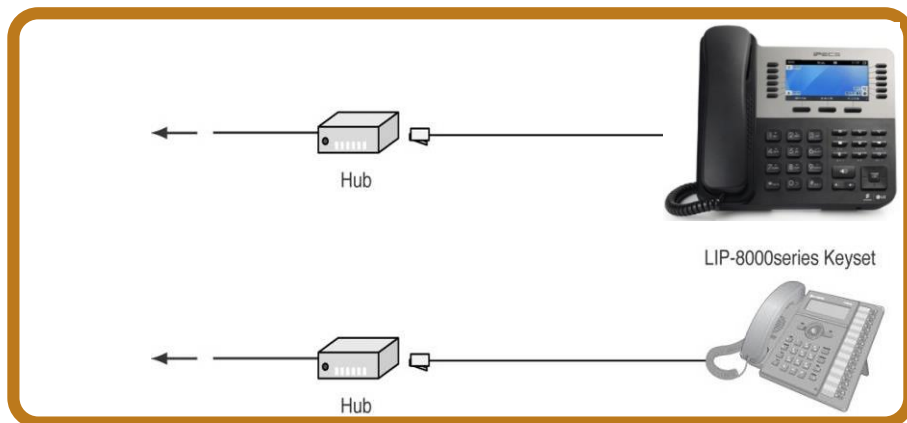


Modular Jack Wiring

Terminal Cabling



IP Phone Connection



DKT(LDP-72xx series) Pin Assignment

TYPE	PIN NUMBER	NO	SIGNAL NAME
		1	N/A
		2	TIP
		3, 4	Reserved
		5	RING
		6	N/A

DKT(LDP-70xx/90xx/92xx series) Pin Assignment

TYPE	PIN NUMBER	NO	SIGNAL NAME
		1,2	N/A
		3	TIP
		4	RING
		5,6	N/A

SLT Pin Assignment

TYPE	PIN NUMBER	NO	SIGNAL NAME
		1,2	N/A
		3	TIP
		4	RING
		5,6	N/A

IP Phone Pin Assignment

TYPE	Pin Number	NO	SIGNAL NAME
		4,5,7,8	Reserved
		1	TX+
		2	TX-
		3	RX-
		6	RX+

Note – Cabling Distance

- ✓ DKT : Max. 500m – AWG#22 (Diam 0.65mm)
Max. 330m – AWG#24 (Diam 0.50mm)
- ✓ SLT : Max. 5000m – AWG#22 (Diam 0.65mm)
Max. 3300m – AWG#24 (Diam 0.50mm)

IPECS is an Ericsson-LG Brand



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