

# LG VoIP ip LDK - 300 (ip Digital Hybrid Key Telephone System)



. LG	3
. ip LDK - 300	5
.	5
. ip LDK - 300	6
1.	6
2.	7
3.	14
4.	17
5.	18

# I. LG

1.

( , , , ) .

2. LG

(ip LDK)

1)

( , )  
ISDN 가 (ip LDK-828 )  
(System Networking) 가

2)

=>

ASIC

PCM

(Dynamic Time Slot)

( )  
: 1B CH  
: 2B CH

3) ISDN

(ip LDK-828 )

4) VoIP

ip LDK-Series Networking  
가 (H.323 SIP )

5)

=>

PC

가

PC

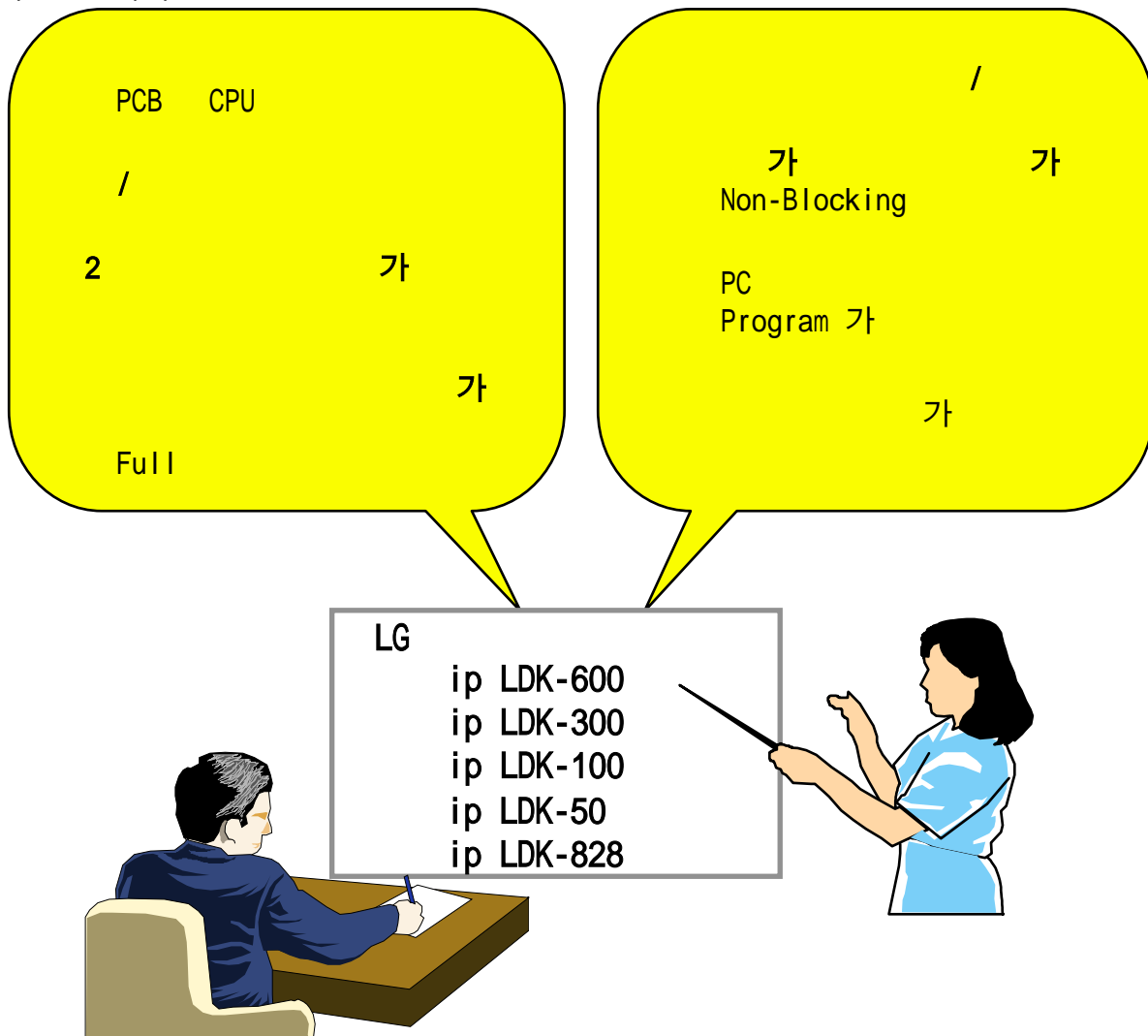
PC

S/W Up-Grade

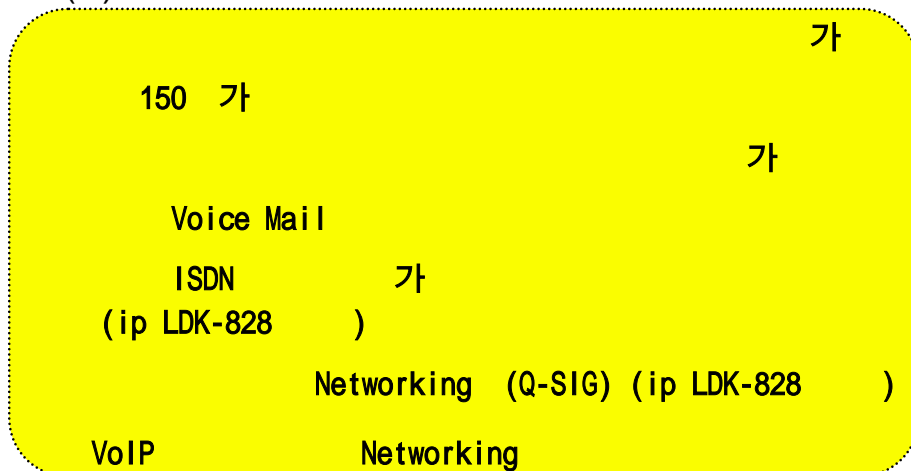
( 가 )

### 3. LG (ip LDK)

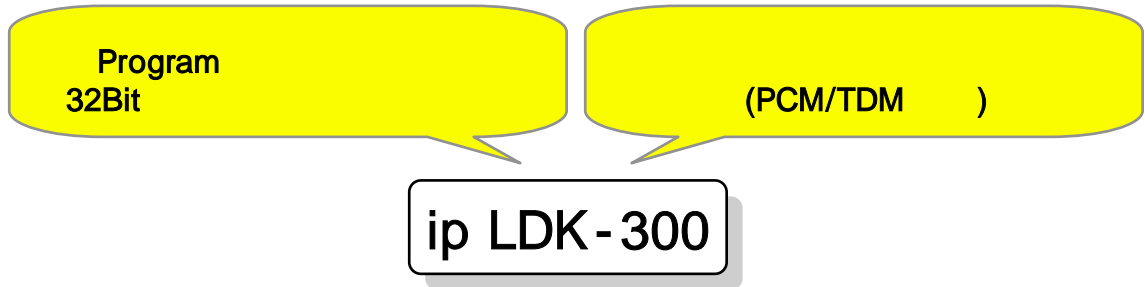
1) (A)



2) (B)



## . ip LDK -300



가 / 가

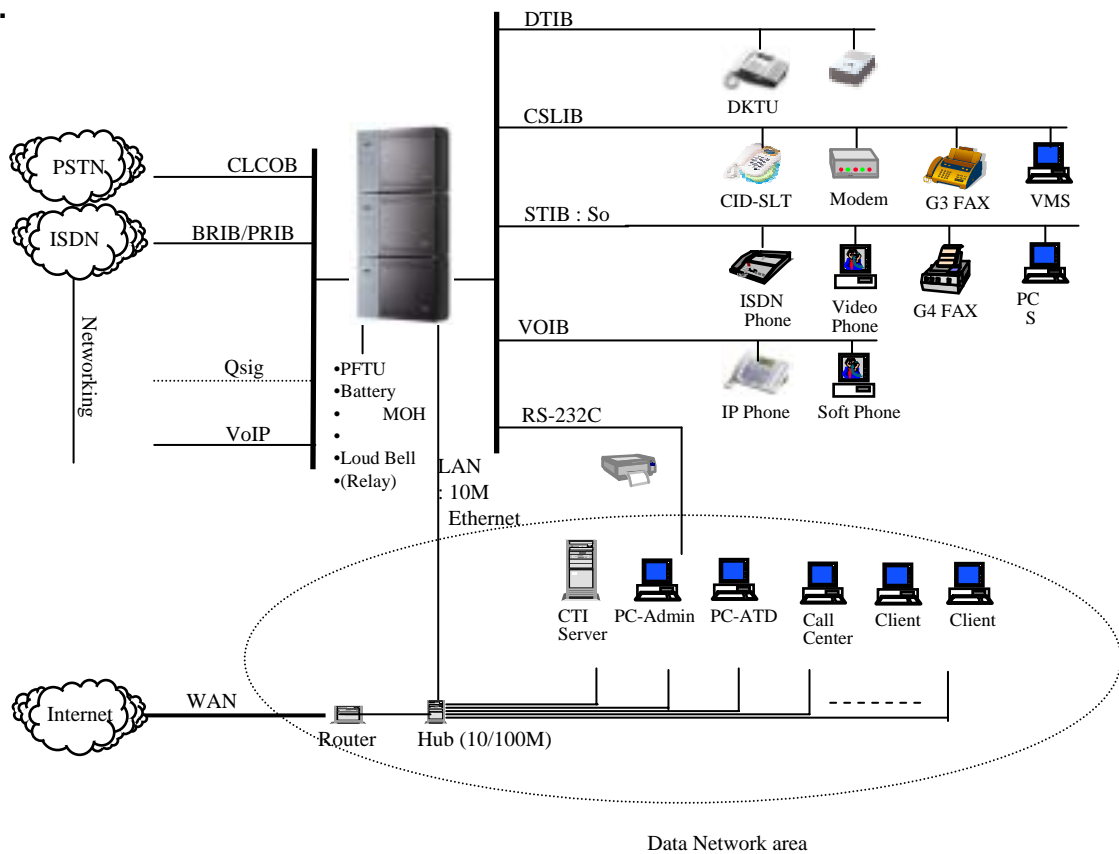
VoIP                      ip LDK-Series                      가

Internet

H.323      SIP

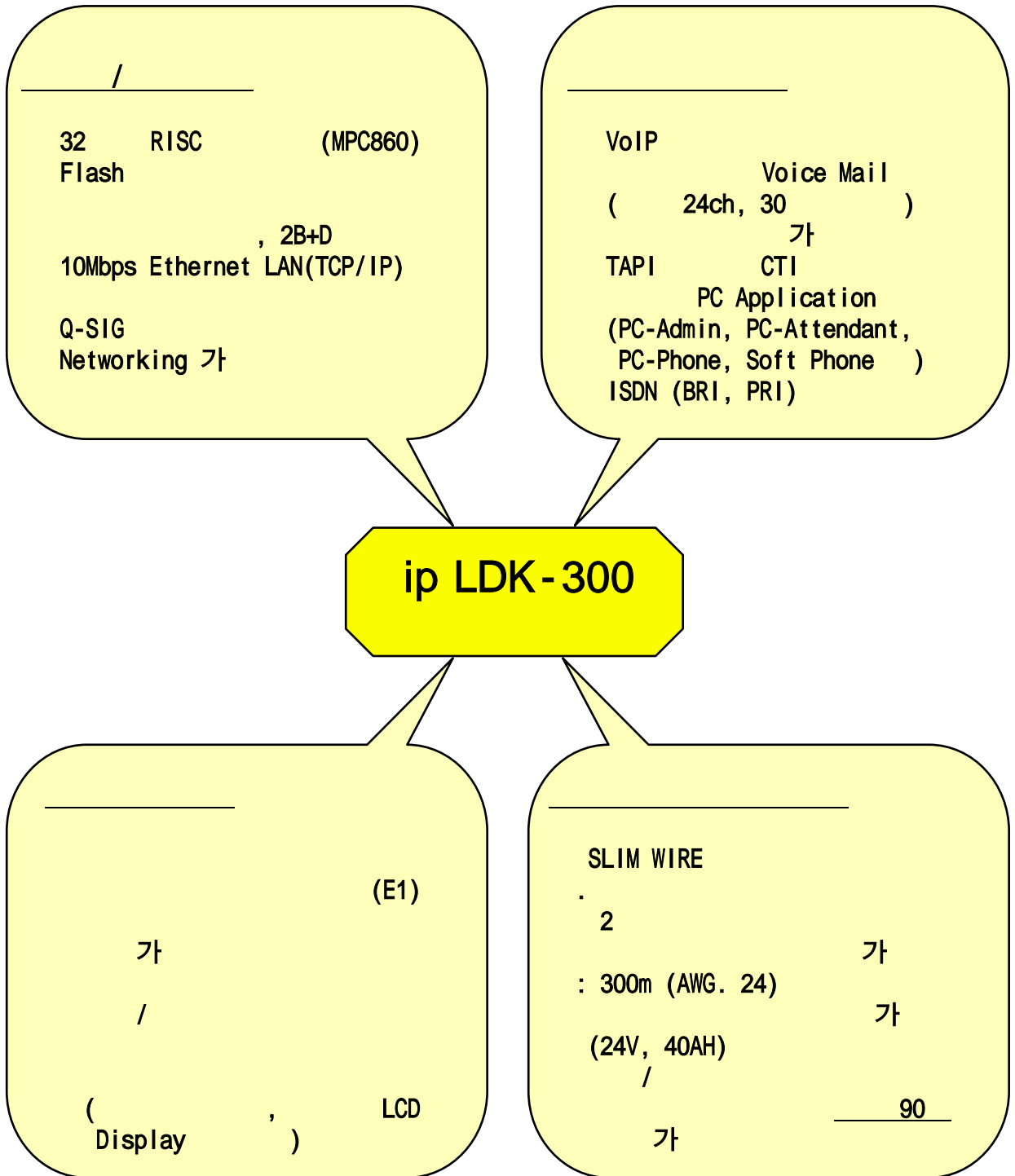
ISDN

가



## . ip LDK - 300

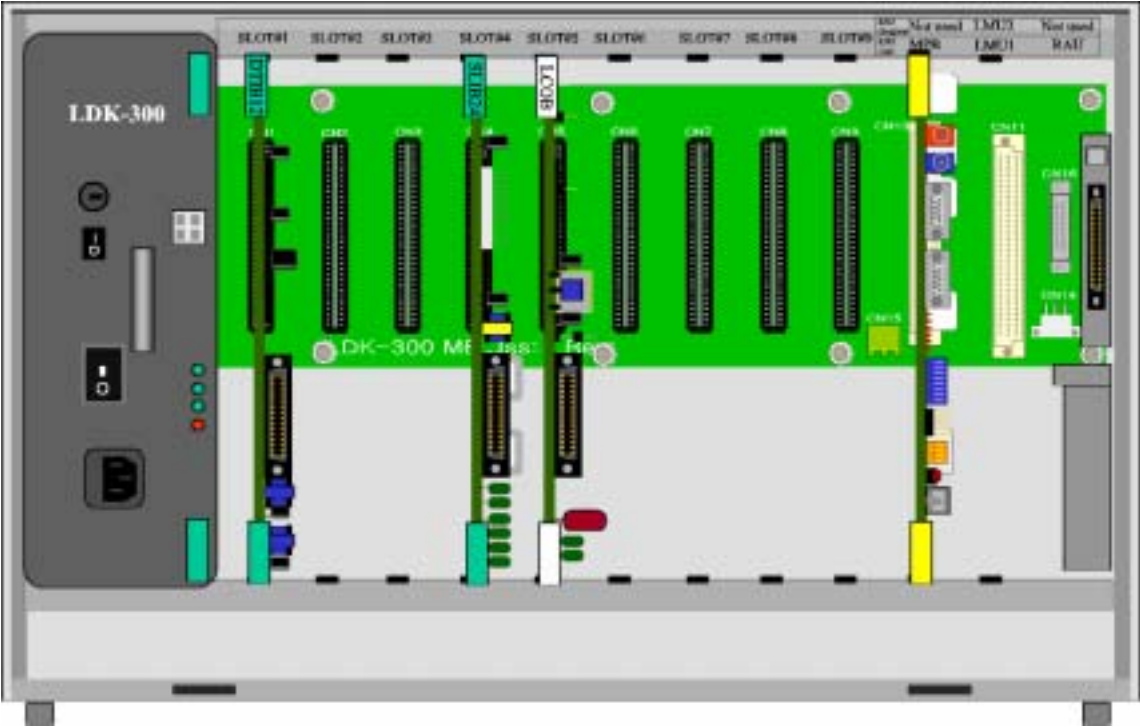
1.



2.

- 1) (   '   )  
(Basic KSU) (1st EXP KSU)  
(2nd EXP KSU) 3 .
- (1) MPB(   )가  
LMU , RAU  
/ LCOB, EMIB, R2DCOB(E1), DTIB, SLIB, CSLIB,  
DSIB, BRIB, PRIB, STIB, VOIB, VMIB, AAIB, MISB  
9 .
- (2) 30 90  
PFTU ,  
가 가 .  
( : 30 , :30 , :30 )

[   ]



PSU	1	2	3	4	5	6	7	8	9	MPB	LMU	RAU
	UNI	UNI	UNI	UNI	UNI	UNI	UNI	UNI	uni	MPB	LMU	RAU

- MPB : MPB ( )
- MISB : 9 가
- RAU : RAU ( )
- UNI : (Universal slot)
- uni : ( , PRIB, STIB, BRIB, VOIB, VMIB,AAIB 7)

2)

	110V or 220V ± 10%
	350W Max.
	DC 24V 40AH
AC	4.0A/ 220V or 6.0A/110V

\* . 24V ,



3)

(1) 300

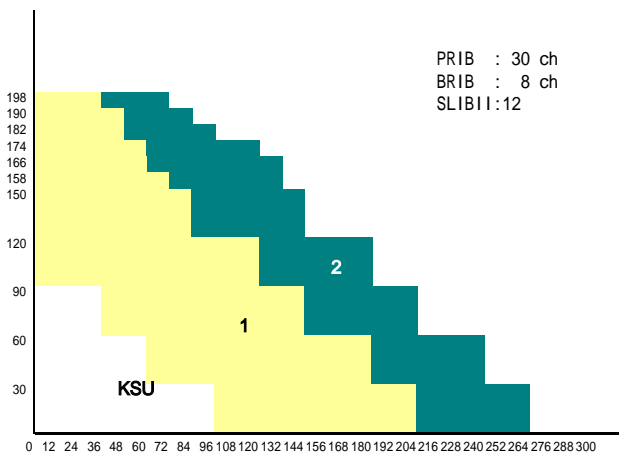
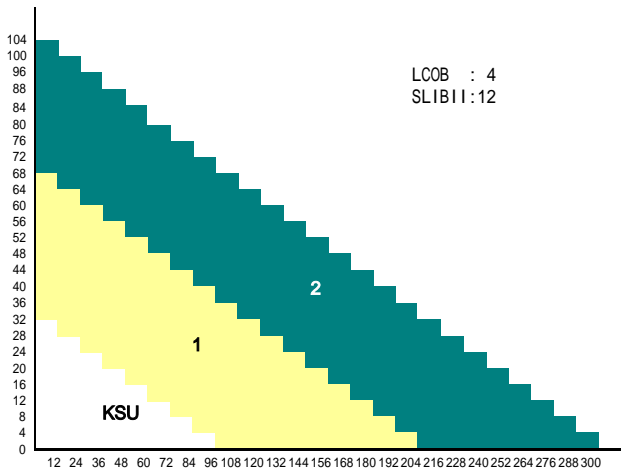
ISDN

가

가

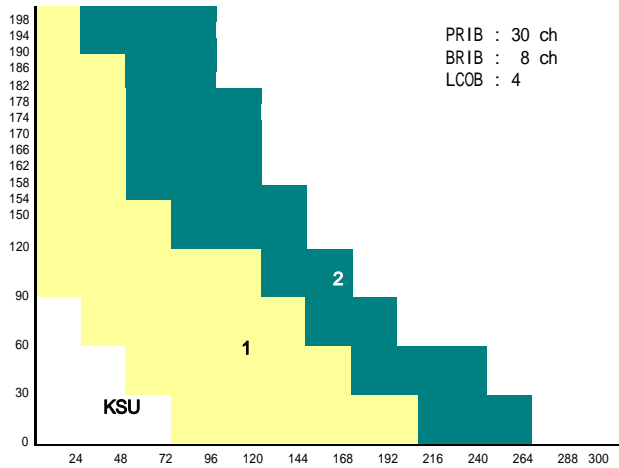
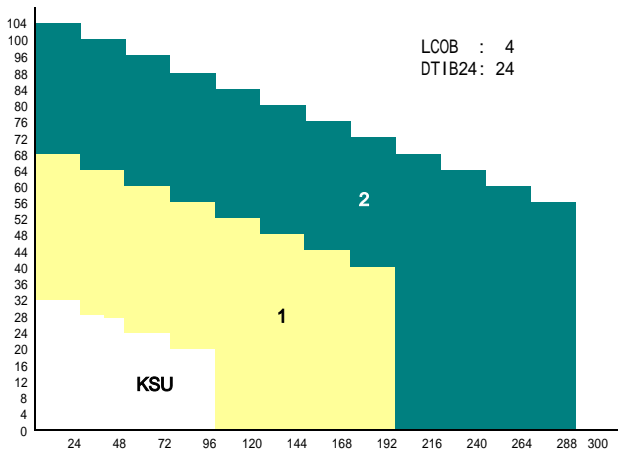
1(CLCOB4&SLIB)

2(PRIB&BRIB&SLIB)



3(CLCOB4&DTIB24)

4(PRIB&CLCOB4&DTIB24)



(2)

ip LDK-300  
GDK-100AGDK-100A  
MPB, ETIB, E1IB, DVIBip LDK-600  
ip LDK-600

MPB

가

No			가		
			KSU	KSU	
1	PSU		PSU		(Power Supply Unit), 350W
2	PSU3		PSU		(Power Supply Unit), 250W(GDK-100A )
3	MPB		MPB		(Main Processor Board)
4	MISB		9		(Miscellaneous Board)
5	DTIB12	12	1~9		(Digital Terminal Interface Board)
6	DTIB24	24	1~9		(Digital Terminal Interface Board)
7	SLIB24	6	1~9		(SLT Interface Board), +24V Feed
8	SLIB48	6	1~9		(SLT Interface Board), -48V Feed
9	SLIBII	12	1~9		(SLT Interface Board), -28V Feed
10	SLIB2E	12	1~9		(SLT Interface Board), -28V Feed
11	CSLIB12	12	1~9		(CID-SLT Interface Board), -28V Feed
12	CSLIB12E	12	1~9		(CID-SLT Interface Board), -28V Feed
13	DSIB	12	1~9		(Digital Terminal 6 and SLT6 Interface), +24V
14	LCOB	4	1~9		(Loop start CO Interface Board)
15	CLCOB4	4	1~8	1~9	(CID Loop start CO Interface Board)
16	LCOB8	8	1~9		(Loop start CO Interface Board)
17	CLCOB8	8	1~8	1~9	(CID Loop start CO Interface Board)
18	EMIB	4	1~9		E&M (E&M Line Interface Board), 2wire E&M
19	TLIB8	8	1~9		R/D E&M (Tie Line Interface Board)
20	DIDB	4	1~9		DID (Direct Inward Dialing Interface Board)
21	STIB	4 (8B)	1~8	1~9	ISDN So/To (So/To Interface Board), 2B+D
22	BRIB	4 (8B)	1~8	1~9	ISDN BRI (Basic Rate Interface Board), 2B+D
23	PRIB	1 (30B)	1~8	1~9	ISDN PRI (Primary Rate Interface Board), 30B+D
24	R2DCOB	1 (30B)	1~8	1~9	R2 E1 (R2-MFC Digital CO Interface Board), 30B+D
25	VOIB		1~8	1~9	VoIP (Voice Over Internet Protocol Interface Board)
26	VOIBE	12	1~8	1~9	VoIP (Voice Over Internet Protocol Interface Board)
27	VMIB	4	1~8	1~9	(Voice Mail Interface Board)
28	AAIB	4	1~8	1~9	AA (Auto Attendant Interface Board)
29	LMU1		LMU		(Link Module Unit 1), KSU
30	LMU2			LMU	(Link Module Unit 2), KSU
31	RAU		RAU		(Relay Alarm Unit)
32	MODU		MPB		(Modem Unit), 33.6Kbps
33	SDMU32		MPB		SDRAM (Synchronous DRAM Module Unit 32MB)
34	SIU	2	MISB		RS-232C (Serial Interface Unit)
35	DTRU	2	SLIB24/48, DSIB, LCOB, EMIB, DIDB		DTMF (DTMF Receiver Unit)
36	DTRUII	4	SLIBII		DTMF (DTMF Receiver Unit)
37	DTRU4	4	SLIBII, SLIB2E, LCOB8, CLCOB4/8, TLIB8		DTMF (DTMF Receiver Unit)
38	CPTU/A	2	LCOB		(Call Progress Tone Detection Unit),
39	CPTU/B	2	LCOB		(Call Progress Tone Detection Unit),
40	CPTU4/A	4	LCOB8		(Call Progress Tone Detection Unit),
41	CPTU4/B	4	LCOB8		(Call Progress Tone Detection Unit),
42	CPTU4/C	4	LCOB8, CLCOB4/8		(Call Progress Tone Detection Unit),
43	CMU	1	LCOB		(Call Metering Unit)
44	CMU4	4	LCOB8		(Call Metering Unit)
45	CIDU4	4	CLCOB4		Caller ID (Caller ID Unit), CMU
46	CIDU	8	CLCOB8		Caller ID (Caller ID Unit), CMU
47	VOIU	1 (2B)	VOIB		VoIP (VoIP Unit)
48	FMEU	5	VMIB		(Flash Memory Expansion Unit)
49	VCEU	4	VMIB		VMIB/AAIB (Voice Channel Expansion Unit)
50	PFTU	6			(Power Failure Transfer Unit)
51	RGU5	Max 15 SLT			(Ring Generator Unit),
52	RGU	Max 15 SLT			(Ring Generator Unit),
53	MOHU	2	SLT		MOH (Music On Hold Unit)

\* ip LDK-50/100

4)

(ip LDK - 300)

(L)630mm (W)238mm (H)411mm



(ip LDK-300 )

+



(ip LDK-300 2 )



(ip LDK-300 3 )

(L)290mm (W)230mm (H)110mm

LDP-Series  
가

MFU



(LDP-6030DH )



(LDP-6042DH )



(LDP-6024LDH )



(LKD-30D )



(LKD-44D )



(LKD-30LD )



(LKD-30HD )

DSS/DLS( / )  
(L)125mm (W)236mm (H) 62mm

(L)140mm (W)108mm (H) 40mm



(LDP DSS )



(LKD DSS )



(PHONE BOX )

IP



(LIP-6030DH )



(LIP-6012DH )



(LIP-6004N )



(LIP-24DH )



(WIT-300H )



(LIP-6000Series DSS)

### 3.

1) (MPB)

CPU (ROM, RAM)  
 10Mbps Ethernet LAN 1, RS-232C 2,  
 (MOH) 1, DTMF 4, PLL, 1,  
 1

2) (CLCOB4/CLOCB8)

가 (LOOP START)  
 가  
 : 4 / 1 (CLCOB4)  
 8 / 1 (CLCOB8)  
 ( , , 가 ) LED  
 4/8 COMBO IC가  
 .  
 .

CIDU

3) (R2DCOB)

가 (R2 E1)  
 : 30 / 1  
 SLOT #9 5 가  
 CCITT G.703, G.704, G.823  
 , ip LDK-300 NT( ) MASTER  
 TE SLAVE가 , PLL  
 , MPB

4) (DTIB 12/24)

: 12, 24 / 1  
 : 2B + D  
 (B :  
 D : ) ,

5) (SLIB24/48/SLIB11/SLIB2E, CSLIB12, CSLIB12E)

. : 6 / 1 (SLIB24/48, +24V / -48V 2 )  
 12 / 1 (SLIB11,SLIB2E -28V )  
 12 / 1 (CSLIB12,CSLIB12E -28V CID )  
 CSLIB12E CSIU12E 가 24 가

6) (MISB)

(MOH), , RS-232C 가

9

7)

(VMIB:Voice Mail Interface Board, AAIB: Auto Attendant Interface Board)

VMIB DISA / ACD/UCD ,  
 MOH , 가 . (VMIB 4 , 5 가 )

AAIB DISA / ACD/UCD ,  
 MOH 가 , 가 .  
 (AAIB 4 , 10 가 )

VMIB/AAIB 1 VCEU 가 4 ,  
 VMIB FMEU 가 5 ,  
 VMIB 1 8 , 10 가 .  
 VMIB AAIB 3 가 .  
 ( 24 , 30 )

8) ISDN

BRIB	2B + D	4	8
PRIB	30B + D	1	30

가 ISDN 가 ,  
 ISDN 가  
 DID 가

STIB ISDN  
 가 .

9) VoIP (VOIB, VOIBE)

IP(Internet Protocol)가 ip LDK-Series Networking  
Phone ) , IP (IP , Soft  
VOIB 1 2  
VOIU 4 가 , VOIU 2  
4  
: 8 / 1  
VOIBE 1 12 , VOIUE 1  
가 12 가  
: 24 / 1  
1 Networking IP 가

10) (EMIB/TLIB8)

EMIB 2wire E&M  
: 4 / 1  
TLIB8 2wire E&M R/D  
: 8 / 1

11) CARD

CARD	
(PFTU)	.(6 /1 )
(RGU)	10
(MODU)	33.6K
(CPTU)	DISA
DTMF (DTRU)	DISA DTMF



4.

1)

(DTIB) .

가

	LCD : 30 , 42 , 44 Large LCD : 24 , 30
	LDP-6030DH, LDP-6042DH, LDP-6024LDH LKD-30D, LKD-44D, LKD-30LD, LKD-30DH

2) (SLT)

(SLIB, CSLIB) .

가

	GS-460, GS-460F, LKA-100, LKA-100F
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3) IP

IP (VOIB, VOIBE) .

가 IP

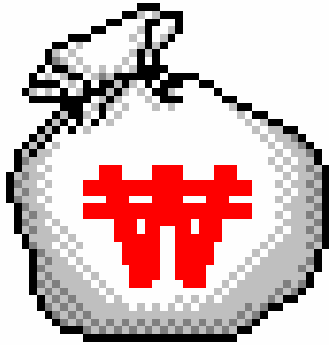
	LCD : 4 LCD : 12 , 24 , 30 , Wi-Fi
	LIP-6004N, LIP-6012DH, LIP-24DH, LIP-6030DH, WIT-300H

4)

DSS/DLS ( )	/
	.



5) 가 .



VoIP 가

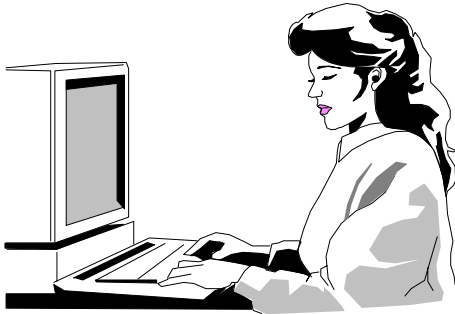
Networking

/

3

가 ( )

6) 가 .

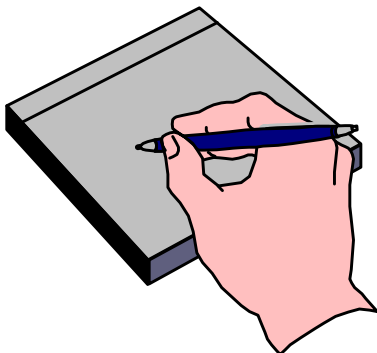


PSTN, ISDN, LAN  
가

Power On DTMF

S/W Up-Grade 가

7)



CTI (PC-Phone) 가  
( )

가