

()

**LDK-600/300
/100/50/828**

1.		1
1)	(PGM 101)	2
2)	(PGM 103)	3
3)	(PGM 105)	4
4)	(PGM 106~107, 109)	5
5)	(PGM 144) (: 101)	6
6)	(PGM 141, 117) (: 1 가)	8
7)	(PGM 116) (: / / 1)	9
8)	(Pick-up) (PGM 190) (:)	10
9)	(PGM 115)	12
10)	/ (PGM 178)	13
11)	DISA (PGM 140) (: DISA)	14
	VMIB/AAIB	15
	VMIB/AAIB	16
	VMIB	17
	VMIB	17
	VMIB	18
	VMIB	18
	VMIB	19
	VMIB/AAIB MOH	19
12)	VoIP	20
13)	DID(E1)	29
2. LDK-50/100		31
1)	.....	31
2)	.....	31
3)	.....	32
4)	.....	32
5)	.....	32
6)	.....	33
7)	.....	33
8)	,	33
9)	DISA	33

1.

◆ 가 ()

가 (PGM 100, 1 Korea ' 82 ')
MPB DIP 8 ' ON ' , Reset

.(PnP)

DIP 8 ' OFF ' .

(PGM 101) :

(PGM 103) : /

(PGM 101) (PGM 103)

Reset

IP Address (PGM 108, 340) Reset

.(LDK-828 Web admin IP :192.168.1.1)

(PGM 104) : 8가 가 ' 1 ' .

(PGM 105~107, 109)

1) (PGM 101)

DIP 8 'CN' Reset

" [/] * # [/] "

" 101 "

BOARD ASSIGNMENT
ENTER SLOT NUMBER

2

.(:01,

)

SLOT 01(F1:ID F2:DEVS)
ID : DTIB12 DEVS: 12

1

2

.(:31)

SLOT 01(F1:ID F2:DEVS)
ID : PRIB DEVS: 30

◆ (LDK-600/300/100/50)

				/			
DTIB12	11	PRIB	31	STIB	51	VMIB	61
DTIB24	12	BRIB	32			(AAIB)	
SLIB6	13	LCOB4	33			MISB	71
SLIB12	14	LCOB8	34				
DSIB	18	DIDB	35				
		EMIB	38				
		DCOB	40				
		VOIB	41				
		CLCOB8	45				
		RDIB	46				
		EMIB8	47				

◆ (LDK-828)

				/			
DTIB4	11	LCOB2	33			VMIB	61
DTIB8	12	LCOB4	34			AAFB	62
SLIB4	13	DIDB	35			SMSB	63
SLIB8	14	CTIB4	48				
DSIB	18						
BFB	20						

DCOB PRIB

2

2 (01~30)

.(:20)

SLOT 01(F1:ID F2:DEVS)
ID : PRIB DEVS: 20

[/]

2) (PGM 103)

DIP 8 'ON' Reset ,
 (PGM 101) (PGM 103) 가 , 가 .

“ [/] * # [/] ”
 “ 103 ”

LOGICAL	SLOT	ASSIGN
COL	STA	VMIB

1

.(:05 06)

05	06	11	11	11	11	11	11
11	11	11	11	11	11	11	11

2

.(:01 02 03)

01	02	03	11	11	11	11	11
11	11	11	11	11	11	11	11

3

VMIB

.(:04 11)

04	11	11	11	11	11	11	11
11	11	11	11	11	11	11	11

[/]

:

Reset

3) (PGM 105)

1 ~ 4

가 .

“ [/] * # [/] ” .

“ 105 ” .

000	001	002	003
100	101	102	103

<LCD1>

) , [/]

가 .

) , (~)

 1 ~ 4 LCD 4 ,
(: 3 + 400)

000	001	002	003
100	101	400	103

4 가 .

(4 가)

[/] .

4) (PGM 106~107, 109)

1 ~ 4

가 .

“ [/] * # [/] ” .

“ 106 ” “ 107 ” .

FLEX NUMBERING PLAN A PRESS FLEX KEY (01-24)	FLEX NUMBERING PLAN B PRESS FLEX KEY (01-22)	FLEX NUMBERING PLAN C PRESS FLEX KEY (1-1)
---	---	---

<PGM 106 >

<PGM107 >

<PGM109 >

~

(: PGM 107 ,

)

GROUP CALL PKUP ENTER NEW # : **

Group Call Pickup " * * "

.(:#)

GROUP CALL PKUP ENTER NEW # : #

[/] .

“ # ”

“ # ”

(PGM 107

14~20)

“ # ”

가 .

5) (PGM 144) (: 101)

LDK-Series 4 (/ / /On-Demand)가 ,
3 가 (/ / VMIB)가

“ [/] * # [/] ”

“ 144 ”

CO RING ASSIGNMENT
ENTER COL RANGE

.(: 001002, LDK-100/50/828 0102)

001-002 PRESS KEY
DAY NIGHT WEEK ON-D

1 ~ 4 LCD 4 ,

1 : DAY() 3 : WEEK()
2 : NIGHT() 4 : On-Demand

(: 1)

001-002 DAY CO RING
DIAL TYPE (1:S/2:H/3:D)

1~3 3가

1:S (Station)

2:H(Hunt Group)

3:D(DISAS) DISA

-1) ‘ 1 ’

001-002 ENTER STA RANGE
STA : DLY : .

, (0~9) 1
‘ 0 ’ . (: 200201+0)

001-002 ENTER STA RANGE
STA : 200-201 DLY : 0

(0~9)

-2) ‘ 2 ’

001-002 DAY CO RING
HUNT GRP : ...

(: 620) PGM 190

001-002 DAY CO RING
HUNT GRP : 620

-3) ' 3 '

001-002 DAY CO RING
VMIB MSG . . (00-70)

VMIB (00~70) 2 .(:01)

001-002 DAY CO RING
VMIB MSG 01(00-70)

' 00' , ' #'
. (:01#)

001-002 DAY CO RING
VMIB MSG 01(01-70)

DISA PGM 140 .

[/] .

6) (PGM 141, 117) (: 1 가)

2

1 : (PGM 141, 1)

2 : (PGM 117)

1 : (: 1)

“ [/] * # [/] ” .

“ 141 ” .

CO LINE ATT 1
ENTER COL RANGE

.(: 001002)

001-002 CO LINE ATT 1
PRESS FLEX_KEY (01-10)

1

2 (LDK -

600/300:00~73, LDK-100/50:00~25, LDK-828:0~9)

.(:02)

001-002 CO LINE GRP
(00-73) : 02

00 : (가)

73(25) : ()

[/] .

2 : 가 (: 1 가)

“ [/] * # [/] ” .

“ 117 ” .

CO GROUP ACCESS
ENTER STA RANGE

.(: 100110)

SELECT CO GROUP RANGE
PRESS FLEX_KEY (1-3)

1~24

1

100-110 CO GRP (01-24)
PRESS FLEX KEY

1 ~ 24

01~24 ,

ON ,

OFF .

[/] .

7) (PGM 116) (: / / 1)

/

“ [/] * # [/] ”

“ 116 ”

STATION COS
ENTER STA RANGE

6

.(: 100110)

100-110	STATION COS
DAY = 1	NIGHT = 1

1

1

(1~7)

2

1

(1~7)

) 1 :

2 : / A

3 : / B

4 : / A B

5 :

6 : 9

7 : 가,

가

) 2~4 / PGM 224

30

가

5~6 / PGM 225

20

가

, 1

14

가

) PGM 224 /

2~4

1

.(: 1 + 1, 2 +7)

100-110	STATION COS
DAY = 1	NIGHT = 7

[/]

8) (Pick-up) (PGM 190) (:)

/ Call (Pickup) .

“ [/] * # [/] ” .

“ 190 ” .

STATION	GRP	ASSIGN
ENT	HUNT	NO (620-667)

(620~667) .(: 620)

STATION	GRP	620
F1:TYPE	F2:PKUP	

(Type)

1

STATION	GRP	620
NOT	ASSIGNED	(0-7)

(Type) Pickup

‘ 6’ [/]

STATION	GRP	620
PICK	UP	GROUP (0-7)

-) 0 : Not Assigned (-)
- 1 : Circular Group ()
- 2 : Terminal Group ()
- 3 : UCD Group (UCD)
- 4 : Ring Group ()
- 5 : VM Group ()
- 6 : Pick-up Group ()
- 7 : NET VM Group (Network)

) 1 , Pick-up

가 .

(Type) 1~5

2

‘ 1’ [/] .(‘ 6’

‘ ON ’)

GROUP	620	PICK-UP
(1:ON/0:OFF) : ON		

가 (Member)

3

PICK	UP	GROUP	620
...

1

가 ,

4

가 .

()

PICK-UP	620
100	

(:

1

 + 100,

2

 + 107)

)

) 1 LDK-600/300: 64 , LDK-100/50: 32 , LDK-828: 28 가

가 .

) Pick-up 가 가 .

[/]

PGM 191 .

9) (PGM 115)

(LDK-300/100/50 : 1~11= CO 01~11, 12=LOOP, 13~=EMPTY)

“ [/] * # [/] ” .

“ 115 ” .

FLEX BUTTON ASSIGN ENTER STA RANGE

.(: 100110)

SELECT BTN RANGE D1:F1-F24 D2:F25-F48
--

1~24 ‘ 1 ’ , 25~48

‘ 2 ’ .(: 1)

100-110 BTN ASSIGN PRESS FLEX_KEY (01-24)
--

(: 1)

100-110 DIAL 01 – 11 BTN1 = CO 001

→ 01 CO() 1

(01~11) 2

			(LCD)
01			EMPTY
02			CO xxx
03			CO GRP xx
04	LOOP		LOOP
05			STA xxx
06		(11-99)	PGM xx
07		(00-99)	STA SPD xx
08			SYS SPD xxxx
09		(PGM106-107)	FLEX NUM :
10	Network DSS	Network DSS	NET DSS :
11	MSN	MSN	MSN :

LOOP : / 가 ,

LOOP

LOOP 가 .

(: 05 + 101)

100-110 BTN ASSIGN BTN1 = STA 101

[/] .

10) / (PGM 178)

“ [/] * # [/] ” .

“ 178 ” .

SET SYSTEM TIME/DATE
PRESS FLEX_KEY (1-2)

124 / 24

.(:1430)

SET SYSTEM TIME/DATE
TIME 14:30 (HH:MM)

2 / / 26 .

(:062001)

SET SYSTEM TIME/DATE
DATE: 06/20/01 (MM/DD/YY)

[/] .

11) DISA (PGM 140) (: DISA)

(PGM 144) DISA

DISA 가

“ [/] * # [/] ”

“ 140 ”

COL SERVICE ATT
ENTER COL RANGE

.(: 001002)

001-002 COL SVC
F1:TYPE F2:SUB ATT

1

‘ 1’

Type 1 : NORMAL CO()

2 : ANALOG DID (DID)

3 : ISDN DID/MSN (ISDN)

4 : TIE ()

5 : DCO DID (DID, E1) (LDK-828 .)

(: 1)

001-002 SVC TYPE (1-5)
NORMAL CO(1)

[/] ,

2

.(DISA)

001-002 DISA ATT
F1:DAY F2:NIGHT

1 ~ 3 3가 (/ /)

(: 1)

01-02 DISA ATT
F1:SVC F2:VMIB

1

SVC , ON/OFF 1 (0~1)

(: 1)

001-002 DISA SVC
(1: ON/ 0: OFF) : ON

[/] , VMIB

2

001-002 VMIB ANNC
VMIB MSG . . (00-70)

VMIB 2 (00~70) .(: 01)

001-002 VMIB ANNC
VMIB MSG 01(00-70)

‘ 00 ’ VMIB

[/] .

DISA / / PGM 167 ,

3가 (/ (or) /) .

VMIB/AAIB

VMIB/AAIB

100 가

가 .

001~071, 097~098

, 073~096

Prompt

, 가

가 .

001~070	/ / DISA UCD	? LG ...()(UCD)
071	MOH()	LG ...
073		.
074		.
075		
076		.
078		#
079		
080		
081		.
083		.
084		
085		.
088	-	1 , 2 , 3 , *
089	- 1	1 , 2 , 3 , 4 , 가 *
091		가 .
093	- 2	# *
094	- 3	.
095	- *	.
096	~	~
097	SLT	: “ 가 . ”
098		: “ ”
099~100	(.)	

LDK-600/300/100/50

VMIB/AAIB

Prompt

30/10

, VMIB

270

VMIB/AAIB

- VMIB/AAIB

, 2 가 가 .

- MPB (LDK - 600 LMUE) EXT MOH MUSIC

Jack .(LDK-828 MBU)

- Prompt VMIB/AAIB Idle

- (101)

[/] “ 06 ”

ENTER SYS NUM (001-100)

3 (001~070)

“ (#) ” 가 ,
(Play) []

PRESS # TO START REC.

“ # ”

“ # ”

“

~ ”

가

“ ~ ”

가

Play

Play

가 “ # ”

PRESS [HOLD] TO END REC.

[/]

VMIB

- VMIB
- :
PGM 113(III) (VMIB
) Enable (Disable)

◆ :
[/] “ 61 ” .(SLT “ 563 ” + “ 61 ” .)
“ (#) .” 가
“ #” [/] .(SLT
Hook-Flash)

, VMIB
PGM 181
) (
VMIB 1 2,000 가 .(
LDK-600/300 6000 , LDK-100/50 4,000)
LDK-828 VMIB 1 , 400 /72 가

◆ :
[/] “ 66 ” .(SLT “ 563 ” + “ 66 ”)

VMIB

- :
가
PGM 112(II) (Enable
(Disable),
“ (Two-way Record) ”

◆ “ (Two-way Record) ” :
[/] + + [/] + 54 + [/]

◆ :
“ ”
가 “ ”
“ ”
“ ” OFF

VMIB

■ :
 VMIB PGM 111()
 () Enable (Disable)
 , VMIB 098 (Prompt)

◆ VMIB :
 [ON/OFF]
 [/] . (SLT “ 554 ”)
 (Type) 1 (1~4) ‘ # ’
 (Type) 1: Unconditional ()
 2: Busy ()
 3: No Answer ()
 4: Busy/No Answer ()
 ‘ ~ ’ [/] , LCD
 VMIB

◆ VMIB :
 [/] OFF . (SLT : “ 559 ”)

VMIB

◆ VMIB
 ◆ :
 LCD 가 [] ,
 . (SLT VMIB “ 097 ”
 “ DND ”)

 [] Play
 . (SLT “ 557 ”)
 가 Play 가
 - [] : Play (SLT “ #1 ”)
 - [/] : Play (SLT “ #2 ”)
 - [] : Play Play (SLT “ #3 ”)
 - : ()

VMIB

- ◆ :
VMIB (Remote Control)
- ◆ :
[/] “ 31 ” .(SLT “ 563 ” + “ 31 ”)
ENTER PASSWORD :
5 [/] .(SLT Hook-Flash)
PGM 227 가 .
PGM 227 LDK-600 999 , LDK-300 600 , LDK-100/50
164 , LDK-828 60 가 ,
Bin No 001 ~ 001 ~

- ◆ :
DISA 가
“ * ”
Play
Dial 1 : Play Play → Dail 1: Play
Dial 2 : () Dial 2: Play
Dial 3 : VMIB Dial 3:
Dial * : Dial 4:

VMIB/AAIB MOH

- ◆ MOH MOH VMIB/AAIB 071
MOH PGM 171 2 (MOH) PGM 142 6 (
MOH) ‘ 05’ .(‘ 01’
)
- ◆ VMIB MOH VMIB/AAIB 1 MOH
- ◆ VMIB/AAIB 2~3 , MOH
가 VMIB 2~3 MOH
‘ 071 ’ ‘ 0711 ’ , ‘ 0712 ’ , ‘ 0713’
LDK -828 / 2 , MOH
(MOH :60)

12) VoIP

◆ VoIP ?

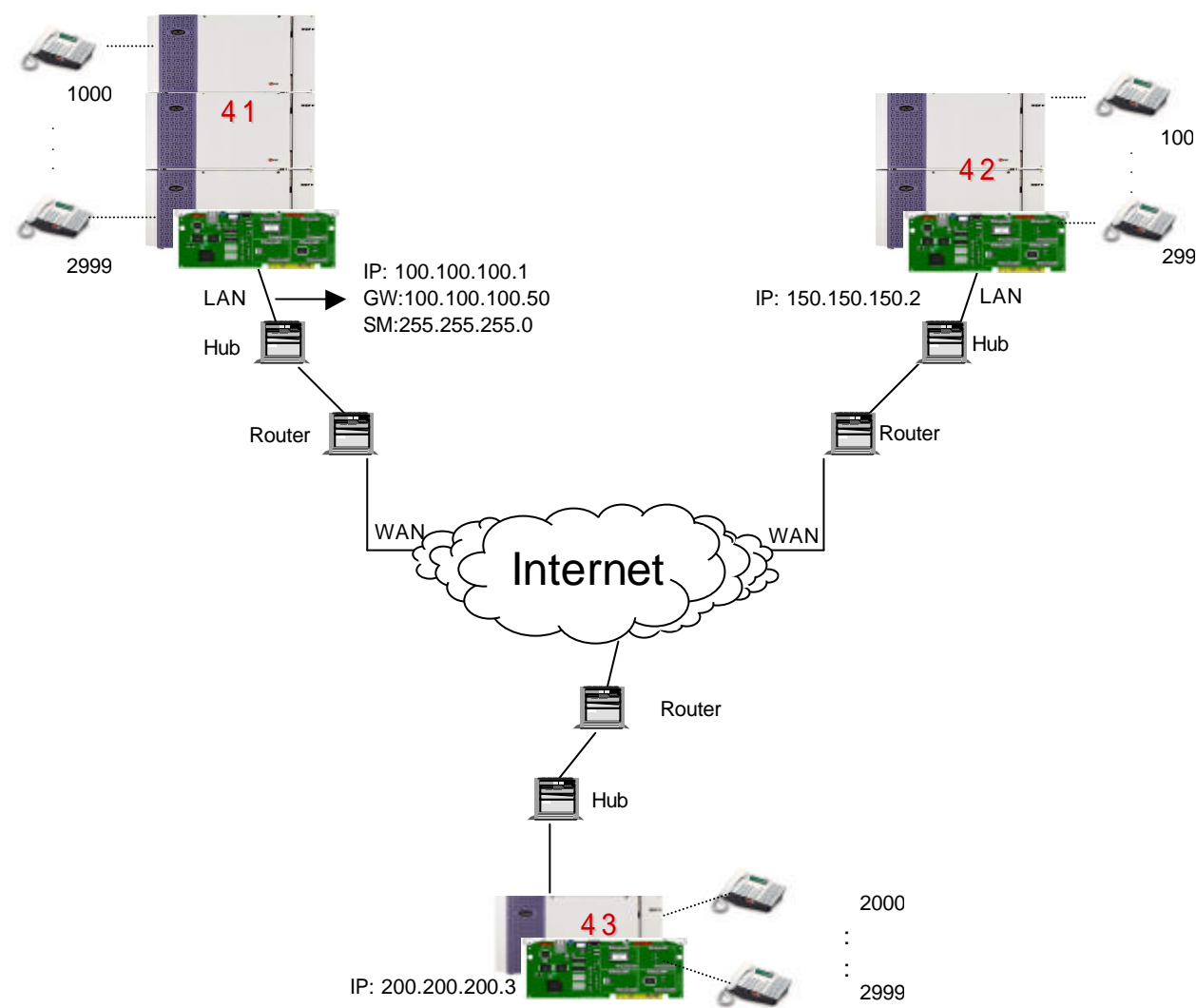
Voice over Internet Protocol _____ / _____
 _____, Internet _____
 _____, _____가 VoIP _____
 VoIP _____, 가 _____
 _____, _____
 _____VoIP _____(Gateway)
 _____, VoIP 1995 _____

 VoIP ITU-T IETF/IMTC

- Protocol : H.323 (QoS가 _____ LAN _____ / _____ / _____)
 H.450 (IP _____ Networking Protocol)
- Voice Encoding G.711 (64 Kbps PCM, Delay < 1ms)
 G.729A (8Kbps ACELP, Delay 10ms)
 G.723.1 (5.3~6.3 Kbps ACELP2, Delay > 30ms)

_____: _____ (_____)
 _____: 가 _____ (Echo) _____ (QoS)
 _____.

◆ VoIP : / (E&M, R/D, T/D) LDK -
Series VoIP VOIB LAN



◆ :
/ " + "

() 1() 100 " 42100 "
1() 2() 2510 " 432510 "

- ◆ VoIP :
- PGM 101()
- PGM 103()
- PGM 140 (ISDN DID/MSN)
- PGM 322 (VoIP Net CO)
- PGM 340 (VOIB IP Address)
- PGM 324 (Network Routing Table)
- PGM 143 (ISDN DID)
- PGM 146 (DID Table) :

()

ISDN DID/MSN (PGM 140) (:)

VoIP ISDN DID/MSN .

“ [/] * # [/] ” .
“ 140 ” .

COL SERVICE ATT
ENTER COL RANGE

VoIP .(: 009018)

009-018 COL SVC
F1:TYPE F2:SUB ATT

1

009-018 SVC TYPE (1-5)
NORMAL CO (1)

‘ 3 ’ ‘ ISDN DID/MSN ’ .

009-018 SVC TYPE (1-5)
ISDN DID/MSN (3)

[/] .

VoIP (PGM 322) (:00)

VoIP Net CO .

“ [/] * # [/] ” .

“ 322 ” .

NET COL ATTRIBUTE
ENTER CO RANGE

VoIP .(:009018)

009-018 NET COL PGM
PRESS FLEX_KEY (1-4)

1

009-018 NET ⌘ GRP
(00 ~24) : 00

(00~24) Net CO .(:01)

009-018 NET CO GRP
(00 ~ 24) : 01

PGM 322 Net CO PGM 141

, PGM 141 VoIP

[/] .

VOIB IP (PGM 340) (:)

VOIB LAN IP Address, Gateway, Subnet-Mask .
(3가)

“ [/] * # [/] ” .
“ 340 ” .

VOIB ATTRIBUTES
ENTER VOIB SLOT NUMBER

VOIB 2 . (: 08)

SLOT 08 ATTR
PRESS FLEX_KEY (01-10)

1 IP Address [/] . (: 100.100.100.1)

IP ADDRESS (SKIP:#)
100 . 100 . 100 . 1

3 4 IP Address 가 3 가
1~2 ‘ # ’ .

2 Gateway Address [/] .
(: 100.100.100.50)

GATEWAY ADDR (SKIP:#)
100 . 100 . 100 . 50

3 Subnet-Mask [/] .
(: 255.255.255.0)

SUBNET MASK (SKIP:#)
255 . 255 . 255 . 0

IP Address Reset .

Network Routing Table() (PGM 324) (:)

VoIP Network IP

“ 00 ” Table

“ [/] * # [/] ”

“ 324 ” <LCD 1>

NET NUM PLAN TABLE
ENTER BIN NO (00-71)

Bin No (00~71)

“ 00 ”

00 NET NUM PLAN TBL
PRESS FLEX_KEY (1-7)

1

Bin No 00 Table VoIP Network

‘ 0’

(NET) [/]

00 SYSTEM USAGE
(0:NET/1:PSTN) : NET

2

Bin No 00 Table

“

+ # +

* ”

[/]

. (: 41#****)

00 NUM PLAN CODE
41#****

#

*

(Bypass)

3

Bin No 00 Table

Net CO

“ 00 ”

() [/]

00 NUM PLAN CO GRP
(00 – 24) : 00

” 00 ”

Net CO

[] 2 <LCD 1>

NET NUM PLAN TABLE
ENTER BIN NO (00-71)

Bin No (00~71)

(: 01 - Bin 01 1)

<LCD 2>

01 NET NUM PLAN TBL
PRESS FLEX_KEY (1-7)

1

Bin No 01 Table

VoIP Network

‘ 0’

(NET) [/]

01 SYSTEM USAGE
(0:NET/1:PSTN) : NET

2

Bin No 01 Table

“

(1)

+

”

[/]

. (: 42***)

01 NUM PLAN CODE
42***

3 Bin No 01 Table , 1 Net
CO [/] .(: 01)

01 NUM PLAN CO GRP
(00-24) : 01

Bin No 01 Table

IP Address

4

01 VOIP CPN INFO
PRESS FLEX_KEY (1-4)

Bin No Table

4

IP Address

1

(1) IP Address

(: 150.150.150.2),

[/]

.()

01 VOIP CPN INFO 1
150. 150. 150. 2

[] 2

<LCD 2>

01 NET NUM PLAN TBL
PRESS FLEX_KEY (1-7)

5

Bin No 01 Table

Network

가

(:2999), [/]

()

01 ALT SPD BIN
(2000 -4999) : 2999

Bin No 01 (1)

42+ 100~999

Net CO 01

IP Address

150.150.150.2

(1)

VoIP

가

Bin 02 (2) Table

Bin No	Usage	Code + Station No	Net CO Group	IP Address	Alt Speed Bin No
00	NET	41#****	00		
01	NET	42***	01	150.150.150.2	2999
02	NET	43****	01	200.200.200.3	
...					
70					
71					

<Network Routing Table >

ISDN DID (PGM 143) (:00)

VoIP

가 DID

“ [/] * # [/] ”

“ 143 ”

COL ISDN ATT
ENTER CO RANGE

VoIP

.(:009018)

009-018 COL ISDN ATT
PRESS FLEX_KEY (01-10)

5

.(:00)

009-018 DID REMOVE NO
(00-99) : 00

.(:02)

009-018 DID REMOVE NO
(00-99) : 02

[/]

DID Table (PGM 146) (LDK-300/100/50 :3 ,#***)

VoIP

DID

DID

Table

PGM 143

“ [/] * # [/] ”

“ 146 ”

CO LINE ATT3
ENTER CO RANGE

VoIP

.(:009018).

009-018 CO LINE ATT3
PRESS FLEX_KEY (1-6)

5

(:4), [/]

009-018 DID DGT RCV_NO
4 (2-4)

6

4

.(:****)

009-018 DID DGT MASK

‘ # ’ (Ignore)

‘ * ’

(Bypass)

[/]

13) DID(E1)

(LDK-828 E1 DID .)

◆ E1(R2DCOB) :

PGM 101()

PGM 103()

PGM 140 (DID)

PGM 187, 1&2 (DID R2MFC) : R2MFC

PGM 187, 4(DCOB Type) :

PGM 146 (DID Table) :

PGM 167 (DID / /)

PGM 181, 2 (DID/DISA) : 20

DID (PGM 140) (:)

E1 DID DCO DID .

“ [/] * # [/] ” .

“ 140 ” .

COL SERVICE ATT
ENTER COL RANGE

E1 .(: 009038)

009-038 COL SVC
F1:TYPE F2:SUB ATT

1

009-038 SVC TYPE (1-5)
NORMAL CO (1)

‘ 5 ’ ‘ DCO DID ’ .

009-038 SVC TYPE (1-5)
DCO DID (5)

[/] .

DID R2MFC (PGM 187, 1&2) (: R2MFC)

DCOB Type (PGM 186) (: Type 2-)

LDK-Series E1 (Signal)

R2MFC , DCOB Type .

“ [/] * # [/] ” .

“ 187 ” .

DCOB COLINE ATT
ENTER COL RANGE

E1 .(: 009038)

009-038 DCOB CO ATT
PRESS FLEX_KEY (1-4)

Incoming

1

009-038 IN DGT TYPE
(0-2) : R2MFC(2)

R2MFC “ 2 ” [/] .

009-038 IN DGT TYPE
(0-2) : R2MFC(2)

0 : PULSE

1 : DTMF

2 : R2MFC

Outgoing

2

009-038 OUT DGT TYPE
(0-2) : R2MFC(2)

R2MFC “ 2 ” .

009-038 OUT DGT TYPE
(0-2) : R2MFC(2)

DCOB Type 4 .

009-038 DCOB TYPE
(0-2) : 2

“ 2 ”

[/] .

009-038 DCOB TYPE
(0-2) : 2

0 : / ,

1 :

2 : /

DID Table (PGM 146) (LDK-300/100/50 : 3 , #***)

2. LDK-50/100

1)

LCOB4 01,02,03 3 , DTIB12 05 1 , SLIB12
06,07 2 , SLIB6 08 1

+ *# + + 101 + 01 + 1 + 33 + + 02 + 1 +
(PGM) () (ID) (LCOB4) ()
33 + + + 03 + 1 + 33 + + + 05 + 1 + 11 + + +
06 + 1 + 14 + + + 07 + 1 + 14 + + + 08 + 1 + 13 +

+ 103 + 1 + 01 02 03 + + 2 + 05 06 07 08 +
(PGM) () () () () ()

MPB Reset , 가

2)

100~104 700~704 , 106~107 720~721

+ *# + + 107 + 6 + + “ 7 ”
(PGM) (‘ 7 ’) ()
+ 105 + 1 + 700 + + 2 + 701 + + 3 + 702 +
(PGM) (1) (2) (3)
+ 4 + 703 + + (Down) + 1 + 704 + + 3 + 720 +
(4) (4) (5) (7)
+ 4 + 721 +
(8)

3)

(Pick-up) “ * ” “ * ”

$$\begin{aligned}
 &+ * \# + \quad + \frac{107}{PGM} + \frac{20}{(*8)} + \quad + \frac{21}{(*9)} + \quad + \\
 &+ \quad + \frac{109}{PGM} + \frac{1}{(*0)} + \quad + \\
 &+ \quad + 107 + \frac{2}{(} + \frac{*}{(} +
 \end{aligned}$$

4)

$$\begin{aligned}
 &1 \sim 5 \quad 110 \quad , \quad 200 \quad , \\
 &6 \sim 11 \quad 120, 121 \quad / \\
 &+ * \# + \quad + \frac{144}{PGM} + \frac{0105}{(} + \frac{1}{(} + \frac{1}{(} + \frac{110110}{(} + \frac{0}{(} + \quad + \\
 &+ \frac{2}{(} + \frac{1}{(} + 200200 + 0 + \quad + \frac{0611}{(} + \quad + 1 + 1 \\
 &+ 120121 + 0 + \quad + \quad 2 + 1 + 120121 + 0 +
 \end{aligned}$$

5)

$$\begin{aligned}
 &100 \sim 110 \quad 1 \sim 8 \quad , \quad 111 \sim 120 \quad 9 \sim 11 \quad , \quad 121 \sim 130 \\
 &1 \sim 11 \quad , \quad 12 \quad (\quad) \\
 &+ * \# + \quad + \frac{141}{PGM} + \frac{0108}{(} + \frac{1}{(} + \frac{01}{(} + \quad + 1 \\
 &+ 141 + 0911 + \quad + 1 + 02 + \quad + 2 \\
 &+ 141 + 1212 + \quad + 1 + 25 + \quad + \\
 &+ \frac{117}{PGM} + \frac{100110}{(} + \frac{1}{(} \text{LED On}(\frac{\text{LED Off}}{(} + \quad + \\
 &+ 117 + 111120 + \quad + 2 \text{LED On}(\quad \text{LED Off}) + \quad + \\
 &+ 117 + 121130 + \quad + 1,2 \text{LED On}(\quad \text{LED Off}) + \quad +
 \end{aligned}$$

6)

100~130 1 , 6 (,)

+ *# + + $\frac{116}{\text{PGM}}$ + $\frac{100130}{\text{PGM}}$ + $\frac{1}{\text{PGM}}$ + 1 + $\frac{2}{\text{PGM}}$ + 6 + ()

7)

100~105 A , 106~110 B

+ *# + + $\frac{190}{\text{PGM}}$ + $\frac{620}{\text{PGM}}$ + $\frac{1}{\text{PGM}}$ + $\frac{6}{\text{PGM}}$ + ()
 ($\frac{3}{\text{PGM}}$) + ($\frac{1}{\text{PGM}}$ + 100 +) + 2 + 101 + 3 + 102 + 4 + 103 + (Down) +
 (1 + 104 +) (2 + 105 +) (4)

+ 190 + $\frac{621}{\text{PGM}}$ + 1 + 6 + + 3 + 1 + 106 + 2 + 107
 + 3 + 108 + 4 + 109 + 4 + (Down) + 1 + 110 +

8) ,

2003 6 20 3 45
 + *# + + $\frac{178}{\text{PGM}}$ + $\frac{1}{\text{PGM}}$ + 1545 + + $\frac{2}{\text{PGM}}$ + 062003 + ()

9) DISA

5~10 DISA , 5~7 1 2
 8~10 3 , 5

+ *# + + $\frac{140}{\text{PGM}}$ + $\frac{0507}{\text{PGM}}$ + $\frac{1}{\text{PGM}}$ + $\frac{1}{\text{PGM}}$ + + $\frac{2}{\text{PGM}}$ + $\frac{1}{\text{PGM}}$ () (DISA) ()
 + $\frac{1}{\text{PGM}}$ + $\frac{1}{\text{PGM}}$ + $\frac{2}{\text{PGM}}$ + 01 + + + $\frac{2}{\text{PGM}}$ + $\frac{1}{\text{PGM}}$ + $\frac{1}{\text{PGM}}$ +
 (SVC) (DISA ON) (VMIB) () () (SVC) (DISA ON)
 + $\frac{2}{\text{PGM}}$ + 02+
 (VMIB)

+ 140 + 0810 + 1 + 1 + + 2 + 1 + 1 + 1 + 1 + 2 +
 03 + + + 2 + 1 + 1 + + 2 + 04 +