

(, RD99)



 **SINKI ELECTRONICS CO., LTD.**

()

: 431-824

3 1038-13

: (031) 384-2784

: (031) 384-8897

: www.ske21.com

Rev. 0.0

1.	.....	1
2.	.....	1
3.	.....	2
4.	.....	3
4.1	.....	4
4.2	.....	6
4.3	.....	7
5.	.....	8
5.1	.....	8
5.2	.....	9
5.3	.....	10
6.	.....	10
6.1	.....	10
6.2	.....	10
7.	.....	12

1.

(2,175Hz) Guard-Tone

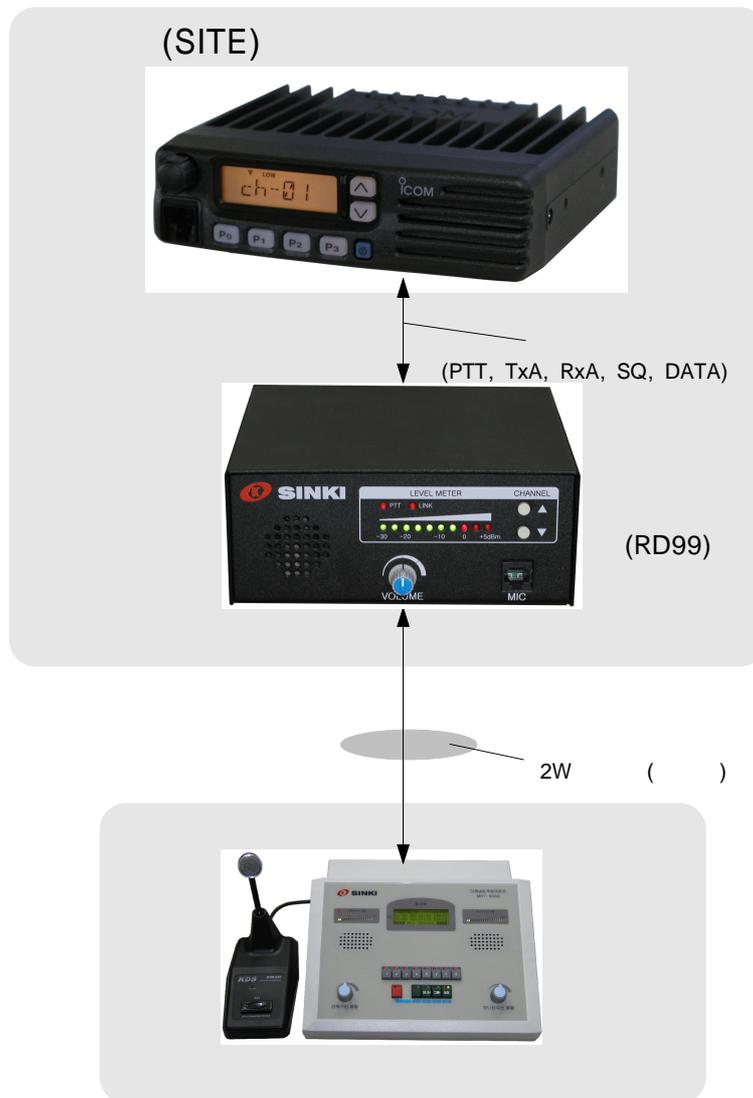
가 가

()

가 가

2.

1 .



1

3.

- 1) 4 가 .
- 2) 1KHz .
- 3) 1KHz .
- 4) .
- 5) .
(, 가 .)
- 6) 가 .
- 7) 가 .
- 8) (가,)가 2 .
- 9) .
- 10) ,
가 .
- 11) 가 (Guard-Tone)
- 12) (TOT) 가 . (TOT = 180)
- 13) 2 (2Wire), 가 .
- 14) 2 , 4 , E/M .

4.

4.1

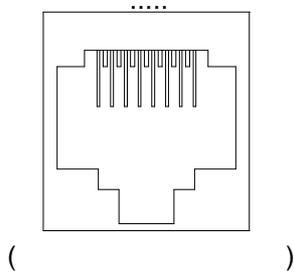


2 (RD99) ()

: , .()

: , ,

: ,



	(ICOM社)
	(+10Vdc)
	AUDIO(TxA/RxA) OUTPUT (Normal 2Vpp)
	PTT (LOW ACTIVE)
	GND
	MIC INPUT

: , 1

, LINK 가 , 5

가 , LINK .

가 ,

가 : 가 , 1 , LINK 가 , 5

가 , LINK .

가 ,

PTT : PTT PTT 가 ,

LINK : ,

4.2



3 (RD99) ()

:

가 .

가 0dBm(600

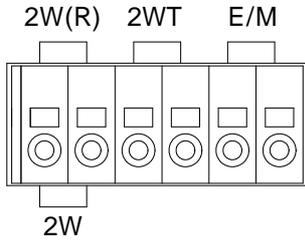
@1KHz) ,

:

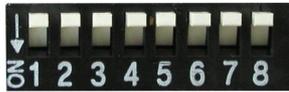
0dBm(600

@1KHz)

가



4W(R)	2
2W	4
4W(T)	4
E/M	E/M



ON

(ON)	(ON)																		
1	Busy() ACTIVE LOW, Busy ACTIVE HIGH																		
2,3	가 (Guard-Tone) <table border="1"> <tr> <td></td> <td></td> <td>가</td> </tr> <tr> <td>2</td> <td>3</td> <td></td> </tr> <tr> <td>OFF</td> <td>OFF</td> <td>2,175 Hz</td> </tr> <tr> <td>OFF</td> <td>ON</td> <td>2,970 Hz</td> </tr> <tr> <td>ON</td> <td>OFF</td> <td>2,880 Hz</td> </tr> <tr> <td>ON</td> <td>ON</td> <td>2,100 Hz</td> </tr> </table>			가	2	3		OFF	OFF	2,175 Hz	OFF	ON	2,970 Hz	ON	OFF	2,880 Hz	ON	ON	2,100 Hz
		가																	
2	3																		
OFF	OFF	2,175 Hz																	
OFF	ON	2,970 Hz																	
ON	OFF	2,880 Hz																	
ON	ON	2,100 Hz																	
4																			
5	1KHz																		
4,5	.(4.3 JP3)																		
6	1KHz, 0dBm(600)																		
7	E/M 가 PTT LOW , HIGH																		
8	4 4 가																		



1	PTT	ACTIVE LOW (OPEN COLLECTOR TYPE)	
2	TX AUDIO OUTPUT	NORMAL 2Vpp (J2 MOD 가)	
3	RX AUDIO INPUT	0 ~ 20dB (J2 RXA 가)	
4	/SQ INPUT	ACTIVE LOW (GROUND .)	
5	TXD	(ICOM)	
6	RXD		
7	DATA 0	(0 5V)	가
8	DATA 1		
9	DATA 2		
10	DATA 3		
11	DATA 4		
12	DATA 5		
13			
14		12Vdc ~ 18Vdc	
15	GND	GROUND	

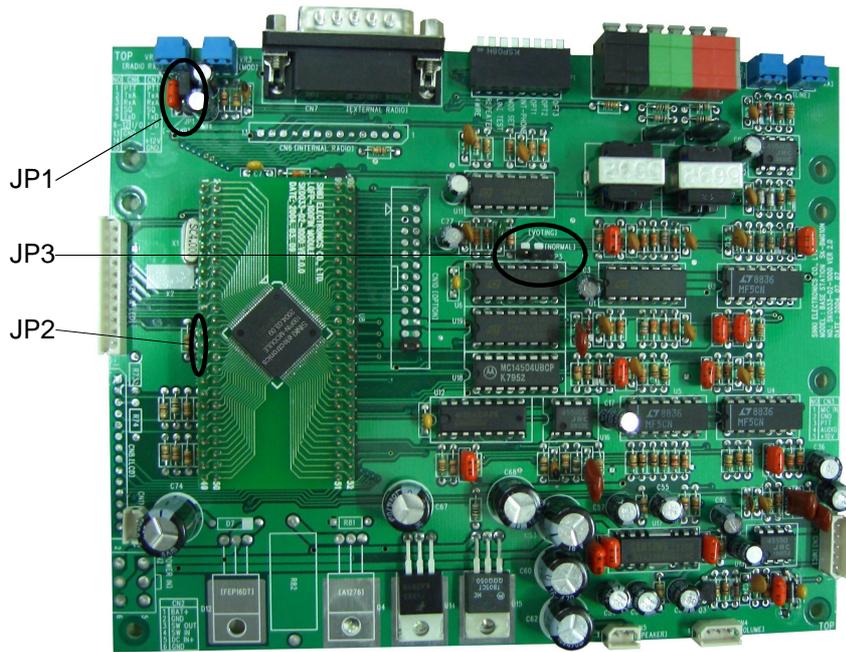
:

가

:

ON/OFF

4.3



- JP1 : 0dBm -30dBm 가 .
 0 dBm : 0~2Vpp .
 -30dBm : 0~90mVpp .
- JP2 : WATCH-DOG (.)
- JP3 : 4.2 .
- VOTING : 가 , 1,950Hz , 가 가 , 1,950Hz .
- NORMAL : 가 .

5.

5.1

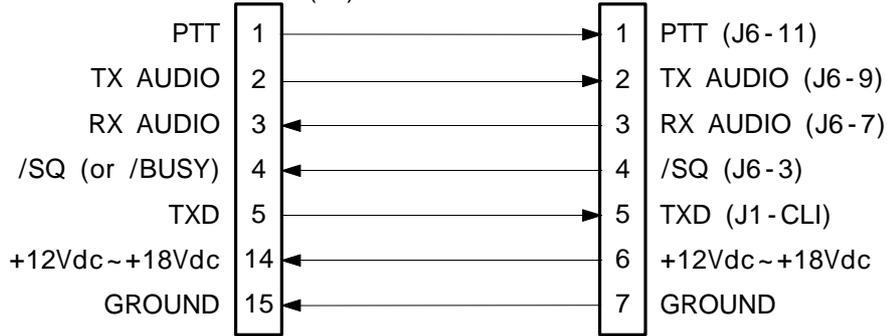
12~18Vdc가 , 4.2-

RADIO INTERFACE(J2)

ICOM社

ICOM社 : IC-F310, IC-F410, IC-F110, IC-F210

RADIO INTERFACE (J2)



[D]

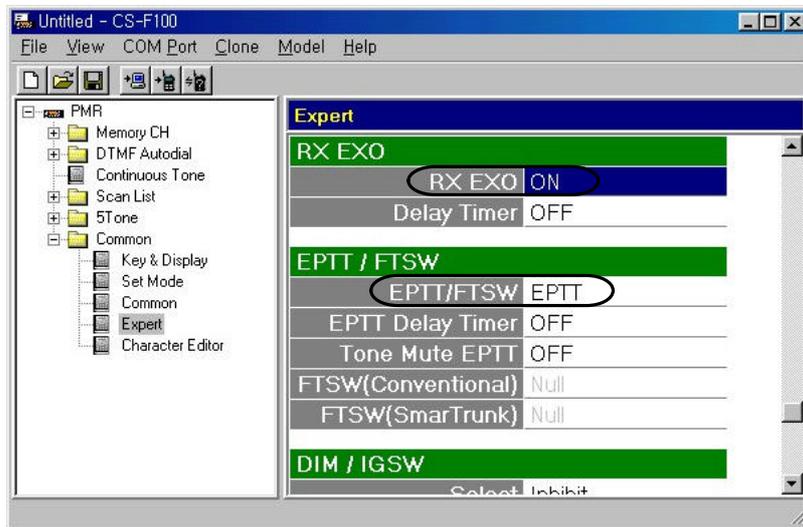
: PMR-Common-Expert

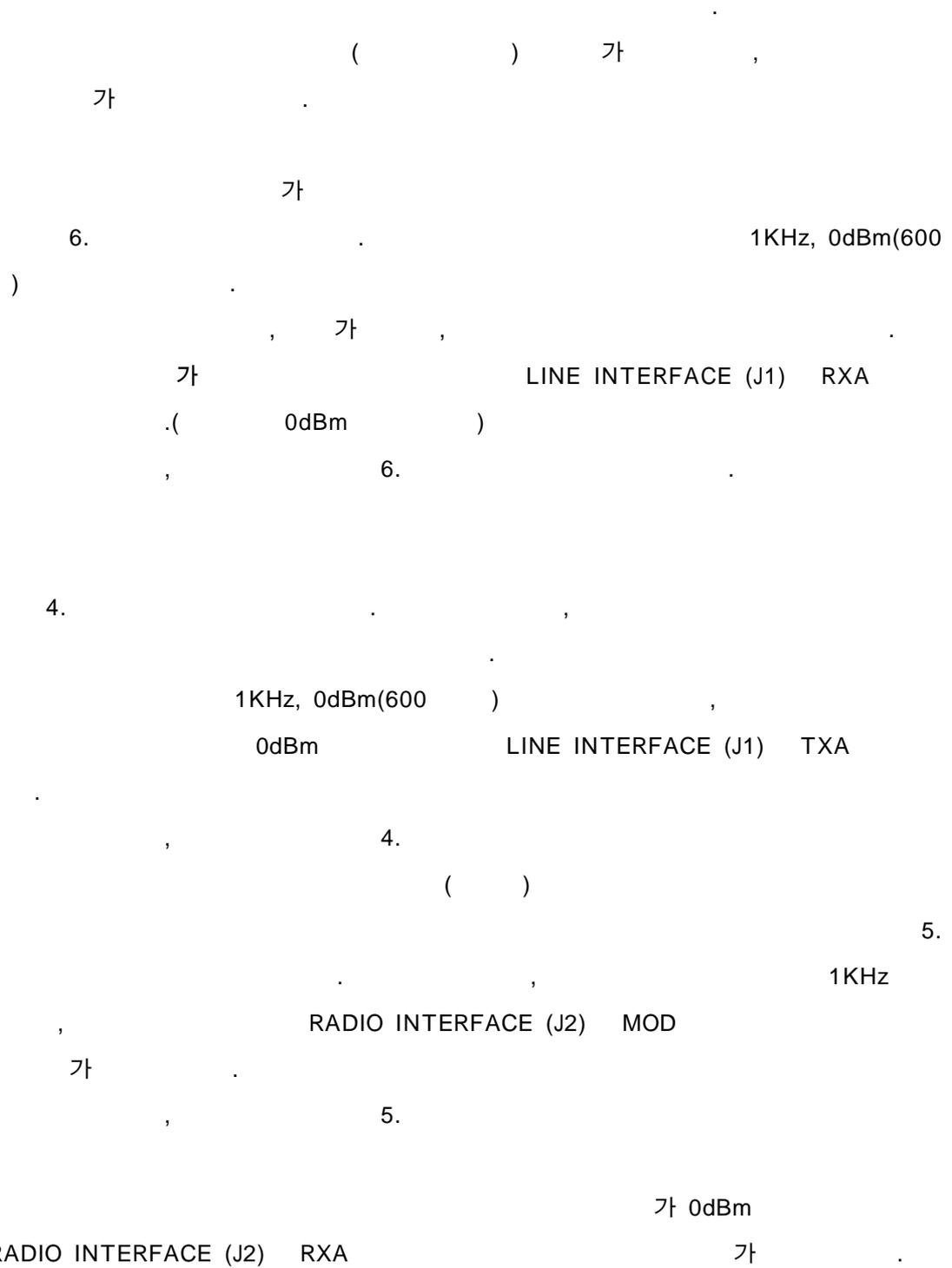
RX EXO = ON,

EPTT/FTSW = EPTT 가

가

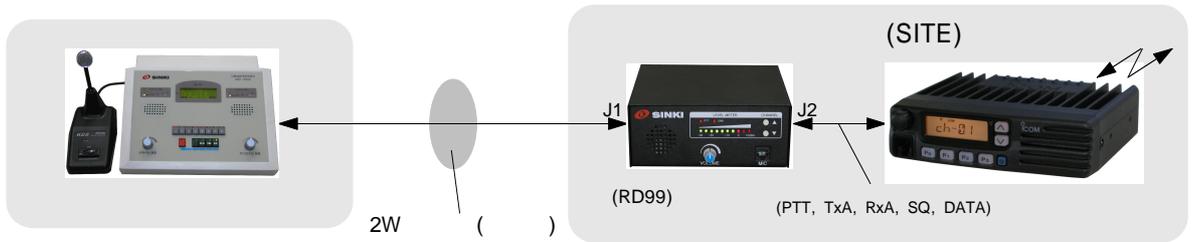
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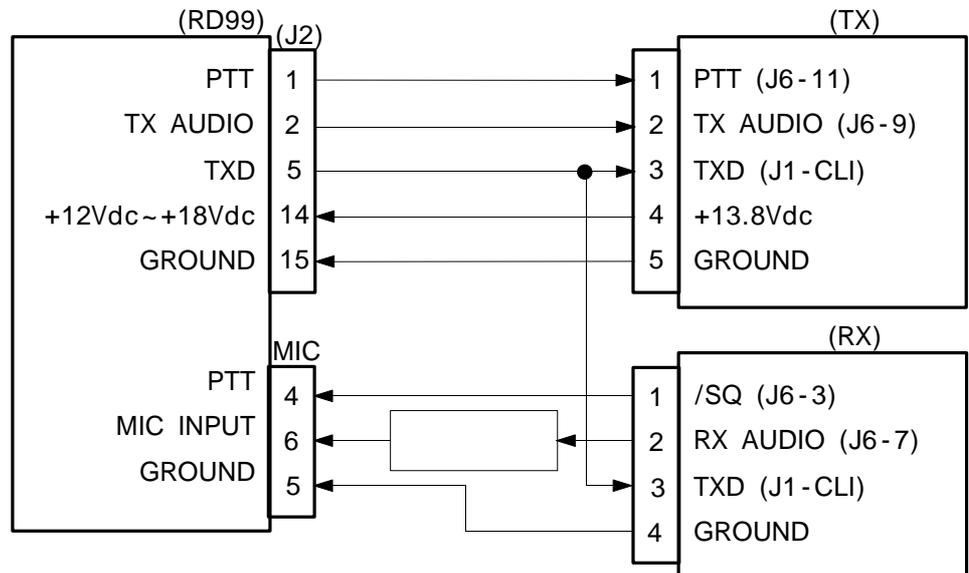
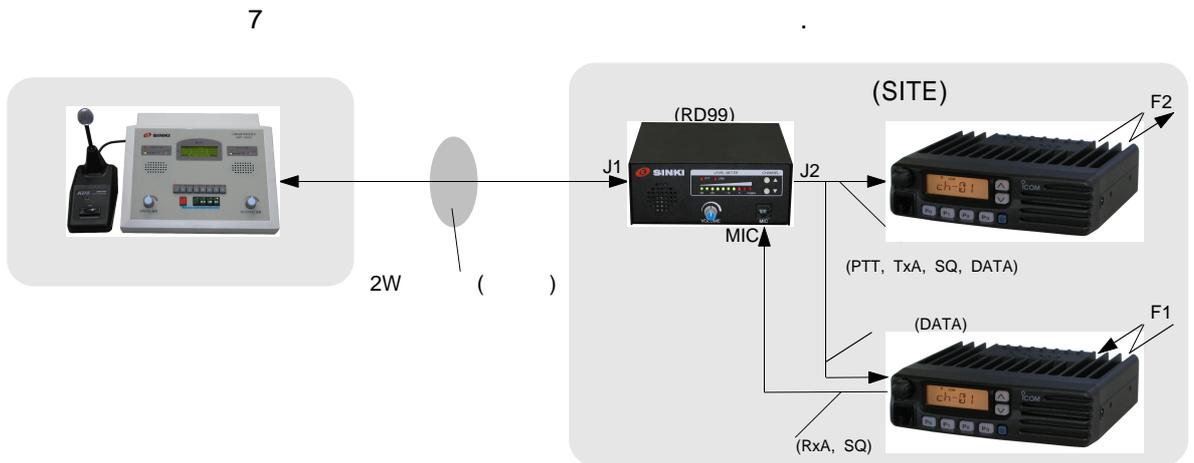


6.

6.1



6.2



(RX)

MIC

, MIC

(TX)

(TX)

가

,

(TX)

7.

1	CPU	32
2		ROM : 128KByte RAM : 6KByte
3	A/D	8 , 10 Bit
4	D/A	2 , 8 Bit
5		2
6		2Wire Tone / 4Wire / E/M
7		600 ± 20% (@1KHz)
8		0 ± 6 dBm (@600 , 1KHz)
9		-25 ± 3 dBm(@600 ,1KHz)
10		-50dB
11		MSK (300 1200bps)
12		01 ~99
13	가 (Guard Tone)	2100Hz, 2175Hz, 2880Hz, 2970Hz
14		1KHz
		1KHz
15	TOT	180
16		7 ()
17		DC12~18Vdc
18		181(W) x 171(D) x 80(H) (M/M)
19		0 ~ 50 , 20% ~ 90%