

2003 05 22  
10-0384433  
2003 05 06

[illegible]

(73)

(72)	60010	817
	60565	1816
	60013	1002
	60007	758
	60089	2241

(74)

:

(54)

$$(123) \quad , \quad (310) \quad (123) \quad \begin{matrix} (123) \\ (102) \\ 1 \end{matrix} \quad , \quad 2$$

(123) . (310)

1

(CDMA)

(CDMA)

, CDMA

TIA/EIA/IS-95-B(Telecommunications Industry Association/Electronic Industry Association Standard 95-B) " (Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular Systems)" 2001 Pennsylvania Ave. NW Washington DC 20006 EIA/TIA

가

(ERP; effective radiated power)

(wide area)

ERP가

가

가

hot)"

가

" (

가

가

가

ERP

가

가

가

(resulting poor frame error rate)

가

;

가

가

1

2

3

4

5

frame error rate) (Eb) (No) (FER; f  
 A/IS-95B(Electronic Industry Association/Telecommunications Industry Association Interim Standard 95)  
 가 (Cellular System Remote unit-Base Station Compatibility Stand  
 ard) CDMA , 1% (FER)  
 Eb/No TIA/EIA/IS-98-A(Electronic Industry Association/Telecommunications In  
 dustry Association Interim Standard 98A) "  
 (Recommended Minimum Performance Standards for Dual-Mode Wideband Spread Spectrum C  
 ellular Mobile Stations" (channel conditions) (mobile location geome  
 tries) . 1% (FER)  
 Eb/No 가 0 26 dB  
 1%

(Ec),

(Ioc)

(Ior)

( ^ Ior)

CDMA

(W)

Eb/No

(Rc)

(R)

$$E_b / N_o = (E_c / I_{or}) \cdot \overset{1}{(I_{or} / I_{oc})} \cdot (W / R)$$

, Ec Ior

$$E_c/I_{or} = \left( \frac{G_{fii}^2}{G_{total}^2} \right) = \left( \frac{G_{fii}^2}{G_{pilot}^2 + G_{page}^2 + G_{sync}^2 + \sum_{k=1}^n G_{fik}^2 P_k} \right)$$

$$P_{fii} = \left( \frac{G_{fii}^2}{G_{total}^2} \right) P_{total} = E_c R_c = E_c W \quad P_{total} = I_{or} W$$

"i" , G x "fli" , G x 2 (x) , P x "1" "n" , "

n" . r k , (sync) , (Gtotal), (Ptotal) , 가 .

(G fl ) 가 , Eb/No 가 , ,

, CDMA ,

가 . (loc) ,

가 (G fl ) , Eb/No가 (loc) 가

가 lor(dB) ^ lor(dB) (G fl ) , 가 가

가 , 가 가

가 , Eb/No 가 (R) ,

Eb/No가 (G fl ) , Eb/No가 (r) (

P fl ) , Eb/No가 (R) ,

, ERP ,

, (R) 가 ,

mSec , 가 , CDMA 20

가 ,

, 가 ,

, CDMA ,

4 가 , 1, 1/2, 1/4, 1/8 ,

1 가 , 1/2 , 1/2

1 , ( , TIA

CDG-27 PN3972 (PN3972 High Speech

Service Option for Wideband Spread Spectrum Communication System) 13kbps QCELP 1/2

) ,

(frame erase) 가 ,

CDMA  
1 (100)  
(101) (120) (101) (120) (101) (124) (101) (124)  
25) (121) (120) (121) (131) (124) (101) (124)  
2) (121) (121) (131) (124) (101) (124) (101) (124)  
(124) (123), (190) (129) AERGAC(105) (125)  
(129) (123) (123) (125) (125) (125) (125)  
(129) (123) (101) (125) (125) (101)  
(125)가  
(101) (120) (121)  
가 가 (125)가 가  
(101) (190) AERGAC(105) AERGAC(105) (129)  
(131) (140) (132) (132)  
, CDMA (131) (132) (160)  
(132) (160)  
가  
(160) (180) (170) (129) (1)  
1 (104) (120) (129) (1)  
04) (131) (129) (104) (124)  
2 (125) AERGAC(105) (129) (129) (129)  
(104) (121) (129)  
9) (201) (123) (129)가 (123) (12)  
(ARDA) 가 (1) (201) (205) (20)  
(129)가 (123) , ARDA (0) (125) (125)  
2, 203) ARDA (101) (190) (101)  
125) ARDA가 "1" (101) ARDA가 "0"  
ARDA (129) (240) (230) (190)  
(190) (129) (230) (124) (230)  
(190)가 (242)  $1/\sqrt{2}$   $1/2$  (240) 241 1  
(230) (123) 가 (132)  
(170) 90% (industry)  
association) 가 (hand-off) 2  
(three way)  
2  
3  
10) (123) (301) (301)  
(123) (310) (310)

(310) , (320) 가  
 3½% (320)  
 (321) (320)  
 (smooth control) (321) (322) (324) (  
 323) (324) (390) (391)  
 (399) (310) (324) 0.05 (391)  
 (391) 가 (integrated up), (324) 0.10 (391)  
 ) (integrated down) (310) (310) (350)  
 (301) (123) (320)  
 (301) (310) CDMA 3  
 (123) 3  
 가 가  
 (320) (310)  
 4 (310) (410) (405) (41  
 0) (405)  
 (310) 가 (405)  
 가 가  
 가 , 1/4  
 1/8 (31  
 0) (310)  
 (shedding) 가  
 5 (310) (310) (520)  
 (520) 가 5 Ec/Ior  
 (520) 2가 Ec/Ior( ; 510) (530) (520) Gfl  
 i Gpilot (540) (540) (560) 가  
 (510) 가  
 510) (520) (310; (-0.1, 0.1) (540)  
 (310)  
 (520) (310) (570) (590)  
 (590)  
 가

(540)가 1 (540) (560) (560) (540)가 2 (560)가  
 Ec/Io (propriety method) , IS-95B (redirection)  
 )

(57)

1.

(attuning)

1

2

2.

1

1

3.

1

2

1

4.

1

2

1

5.

1

2

가

6.

1

7.

1

(conditions)

8.

7

2

6

9.

1

10.

2





