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(43)

2002 - 0007441
2002 01 29

(21) 10 - 2000 - 0040176
(22) 2000 07 13

(71)
2 475 - 22

(72)
4 305 1302
3 510

(74)

:

(54)

가 N

(35);
(R)

(T);

(35)

(T)

가 .

(32)
가 1/N

- 1 OFDM
- 2 DMT
- 3 FCC PART 15.209
- < >
- 10 : / 15 : QAM
- 20 : 25 :
- 30 : / 35 :
- 40 : / 45 :
- 50 : 55 : QAM
- 60 : /

Hz)) 가 (450K
 rthogonal Frequency Division Multiplex) OFDM(O

1 가 (L0)

DMT(Discrete Multi - Tone)

가 N

(R) (35); (T); (35) (T) (32) 가 1/N

2 DMT

2 가 N

(T); (35) (T) (32) 가 1/N (35); (R)

DAC(Digital to Analog Converter(30) : (T) / (10), QAM (15), (20), (25) (R)
 ital Converter(60): (40), (45), (50), QAM (55), ADC(Analog to Dig

(10) QAM (15) QAM (20)
 (15) / (10) QAM (15) 가 (N) (20)
 (20) QAM (25)

(20) 1 FCC(Federal Communications Commission :

) 가

[1]

(MHz)	(micro - volt/meter)	(meters)
0.009 - 0.490	2400/F(k/Hz)	300
0.490 - 1.705	2400/F(k/Hz)	30
1.705 - 30.0	30	30

(20) 가 3 ()
 , 0.009 - 0.490MHz L1 , 0.490 - 1.705MHz
 L2 , 1.705 - 30.0MHz L3 가
 L1 > L2 > L3

가 가 (25)

(30) 가 (25) / (30) / (32)

(32) (35) / (35) (32) / (40)
 (45) 가 . (40)

(45) (50) , (50) (20)
 가 QAM (55) QAM .
 , QAM (55)
 (55) / (60) (Signal to Noise : SNR) , QAM

가 .

(57)

1.

가 N ;
 ;
 가 1/N .

2.

1 ,
 / ;
 / QAM QAM ;
 QAM 가 (N) ;
 ;
 ;

3.

1 ,

;

;

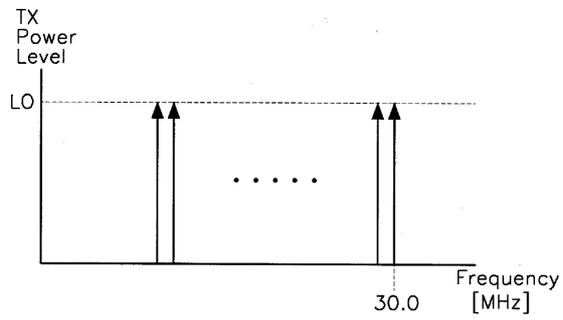
가 (1/N)

;

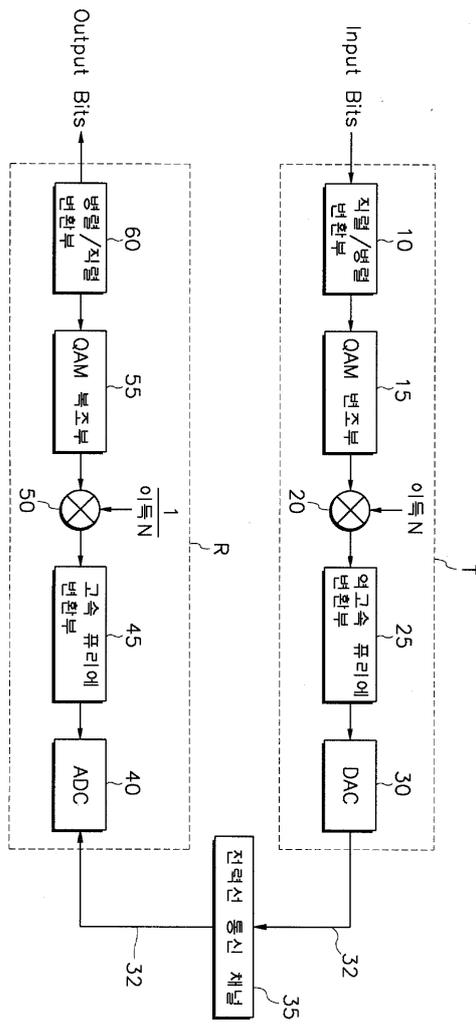
QAM QAM ;

QAM /

1



2



3

