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2002 02 06

(21) 10 - 2000 - 0004310
(22) 2000 01 28

(65) 2001 - 0076891
(43) 2001 08 17

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2 259

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120 - 1

가 가 126 304

(74)

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(54)

, 가 1 OFDM OFDM OFD
M ; 2

OFDM, BER, ,

1 OFDM

2 OFDM

3 OFDM

4 가 가 OFDM

(telecommunication system) , (orthogonal frequency division multiplexing) ('OFDM')

fading) , OFDM 가 (OFDM

COFDM (Coded OFDM)

1 가 가 N 가 1 가 가 (interleave)

SNORE (Signal to Noise Ratio Estimation)

SNORE

SNR (Signal to Noise Ratio)

SNR

1 2

1

$$\frac{\hat{E}_b}{N_0} = S \hat{N} R = \frac{(\hat{\mu})^2}{2 \hat{\sigma}^2}$$

2

$$\hat{\mu} = \frac{1}{n} \sum_{i=0}^n |x_i|$$

1 2 , $\hat{\mu}$, $\hat{\sigma}^2$.

가 SNR SNR SNORE (variance)가 BER 가 . , 가

OFDM

가

1

OFDM
OFDM

OFDM

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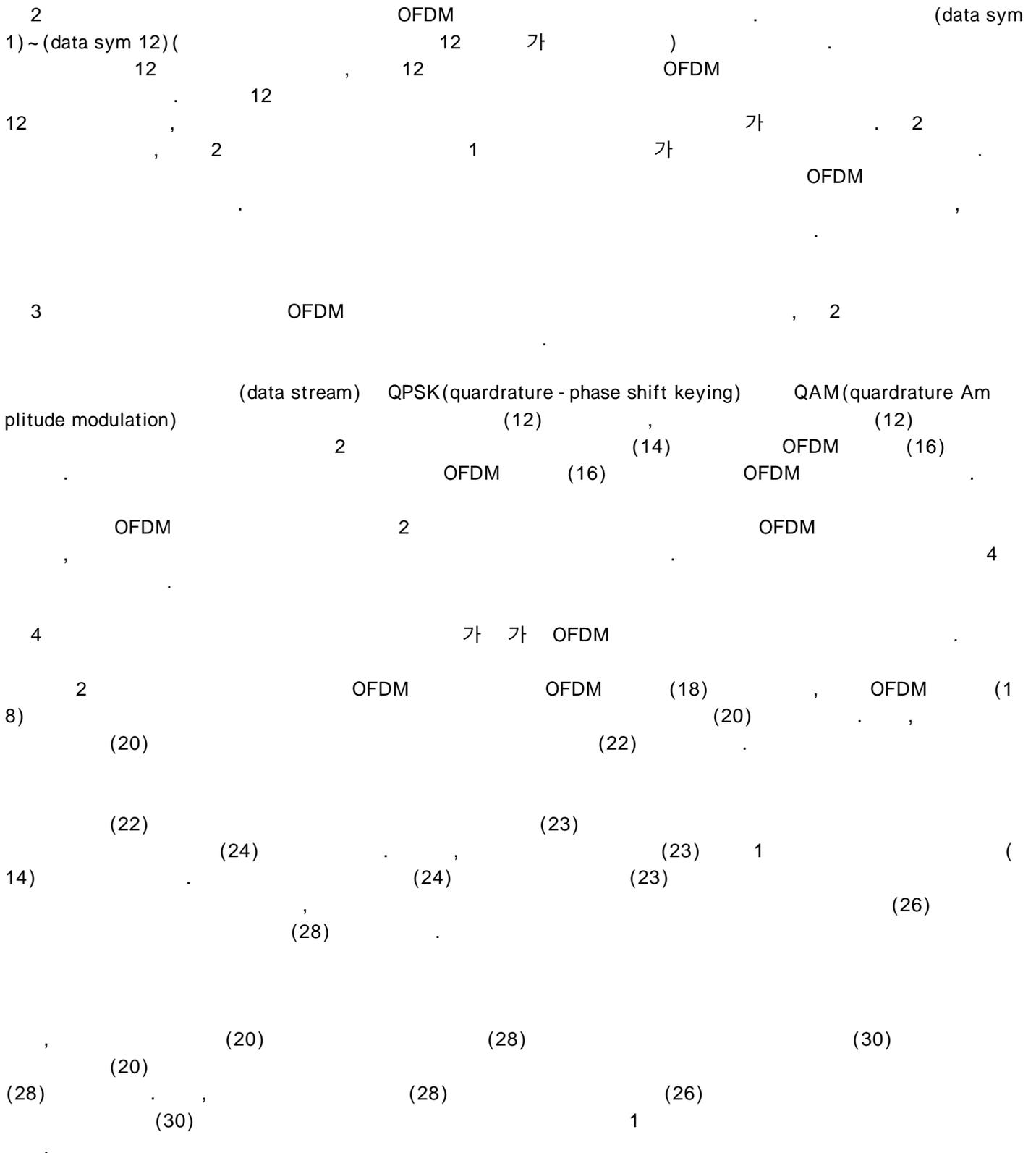
2

OFDM

OFDM

OFDM

1 OFDM , N (symbol) (sym)
N SP) (Sync1) , 3 N - 3 가 (Null), (Frame Synchronous Pattern) (F
(nc1) OFDM (FSP) (Sy
() 2 15



3

$$\text{비트오율} = \frac{\text{파일럿에러수}}{\text{수신된총파일럿개수}}$$

, OFDM

OFDM

OFDM

(57)

1.

가

1

OFDM

OFDM

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OFDM

2

2.

1

3.

1

2

4.

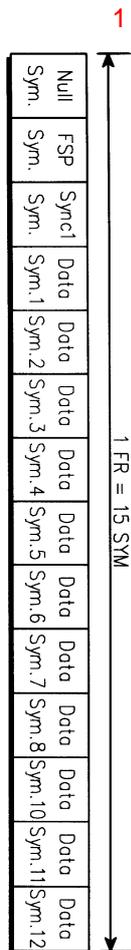
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1

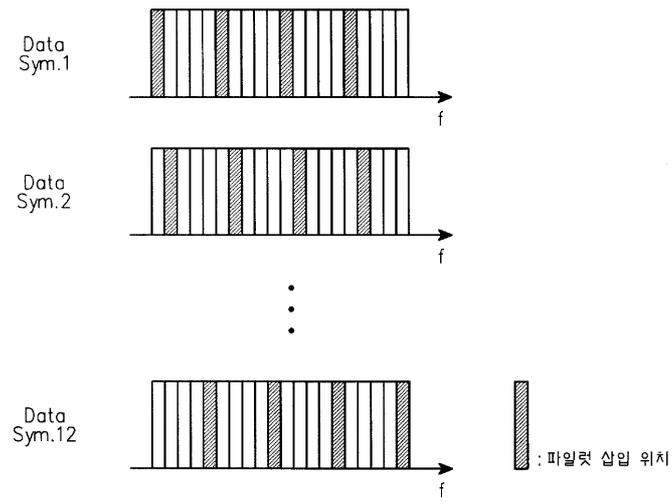
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5.

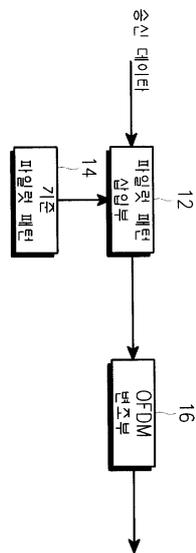
OFDM



2



3



4

