

[]

3GPP2(The Third Generation Partnership Project 2) TSG-C WG3

7

3G

2007

1

(FFR:Fractional Frequency Reuse), VoIP

1

Huawei, LGE, Motorola, Nortel, Qualcomm, RITT, Samsung, ZTE 8 가

MIMO(Multi Input Multi Output,)

- diversity
- Beamforming
-
-

diversity CQI(Channel Quality Information) feedback

가

traffic

가

diversity

diversity

가

가

Beamforming

가

가

SINR(Signal to

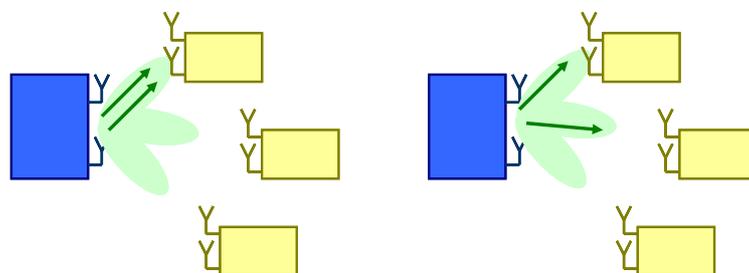
Interference plus Noise Ratio) 가

beamforming

feedback

가

가



Spatial Multiplexing

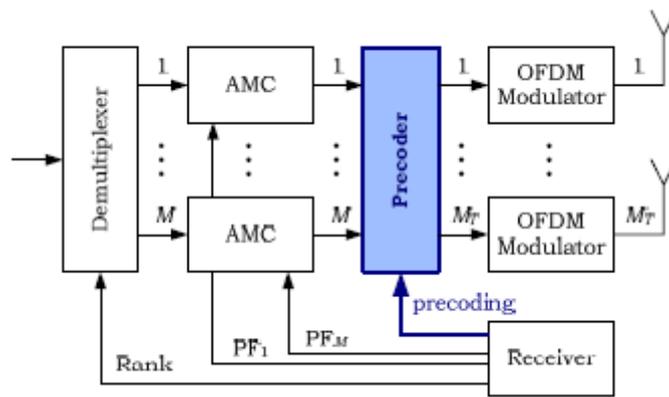
Spatial Division Multiple Access

< 1> SM SMDA

MIMO) , MIMO SM(Spatial Multiplexing) SU-MIMO(Single User MIMO) 가 .
 SDMA(Spatial Division Multiple Access,) MU-MIMO(Multi-User MIMO) , SM SDMA 1 .

Precoding

2 precoding MIMO 가 .



< 2> Precoding MIMO

unitary precoder가 default precoder , precoder codebook precoder . Precoder codebook

- 가 .
- (Knockdown) precoder
- (Readymade) precoder

precoder precoder , precoder . precoder 64 precoder , precoder . precoder .

2-Tx 4-Tx STTD(Space Time Transmit Diversity)

precoding,

MIMO

/

. 2007

2

가

4

가

.

(

, zkim@samsung.com)