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(72)

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41 917 503

(74)

:

(54)

2 , (a) 1 2 , 1 n 가
 2 , (b) (a) 1 1 , (c) (
 b) 1 1 , (d) (c) (down
 , (d) (upgrade) 2 ,
 (e) (b) (d) ,
 , 가 .

2

1
2

110 : 1 120 :

130 : 2

Hz (PLC;Power Line Communication) 50~60Hz
 MHz
 가 TV, VCR,

가

1 n 가 2 , (a) 1 2 (a) 1
 2 , (b) (a) 1
 , (c) (b) 2
 , (d) (c)
 (downgrade) (upgrade)
 , (e) (b) (d)
 (a) , (b)
 (b) 1 CRC(Cyclic
 Redundancy Check)
 (b) (b1) (a)
 가
 , (b2) (b1) 가
 (c) MAC(Media Access Controller)
 (c)
 (d) (d1) (c) /
 1 가
 2 , (d2) (c) 1 가 1
 / 가 2

가 2 (d3) (d2)
 3 3 (downgrade)
 , (d4) (d3)
 4 (upgrade)
 , (d5) (d4) 4

1 (130) (120) 1 2 (110)(120) (110) (120)
 2 (120) n

1 2 (110)(130)가 (120) 1 (110) (120)
 2 (130) (120) 2 (130) (S1). 1 (110) 2 (130)가

1 (110) 4 4 1Mbps 1Mbps 가 1Mbps (120) 2
 (130) (120) 2 (130) 4 가 4Mbps 가 1 (110)
 가 가 가 가 가 가 가 (130) 가
 4 2 (130) (120) 1 (110)
 가 (S2, S3). 2 (130)
 (120) 1 (110) (S4). 2 (1
 03) CRC(Cyclic Redundancy Check) .

2 (130) 가 (120) 1 (110) 2
 4 1Mbps (120) 1 (110) 2
 (130) 1 (110) 가 2 (130)
 4 1Mbps 가 4Mbps 가
 (120) 1 (110) 4 가 2 (130)
 가 4 가 1 (110) 가
 4 2 (130) 가
 4 1Mbps (120) 1 (110) (S5)

1 (110) 2 (130) (120) , MAC(Media Access Control
 ler) (S6, S7). MAC(Media Access Controller)
 15 , 1 , 2

[1]

	MAC			
2	00-00-00-00-00-01	1	0	1Mbps
...

1 (110) / MAC(Media Access Controller) 2 (130)
 S2 가 S9 1 (110) (S8, S9). 1 가 1
 (120) (upgrade) , (120) 가 1
 ~S12). 1 (110) 2 (S10)
 가 2 1 (110) S2 S12
 (120) (upgrade) , 가 S2 2
 3 (S13, S14). 3 1 (110)
 (downgrade) 3 (120) 2 (130) S2
 S14 3 (upgrade) 4 (S15, S16). 1 (11)
 0) (downgrade) (120) 2 (130)
 3Mbps , 1 (110) 2 (130) S12 2
 bps 3 (120) 1 (110) 2 (130) S2 S14 2M
 (upgrade) . 4 (120) 1 (110)
 6 (upgrade) (120) 2 (130) S2 S1
 S18). (120) , 2 (130) (S17,
) 1 (110) (upgrade) (120) 2 (130) 4Mb
 ps (120) , 1 (110) S16 4
 4 (120) 1 (110) S2 S16 (upgrade)
 (upgrade) 2 (130) (120) 2 (130)
 1 (110) (120) 2 (130)

(57)

1. 가 , 2
- (a) 1 n 가 2 1 2
- (b) (a) ; 2
- (c) (b) 1 ; 1
- (d) (c) / , (downgrade) ;
- (e) (upgrade) 2

(e) (b) (d)

2.

1 (a) , (b)

3.

1 (b) 1 CRC(Cyclic Redundancy Ch
eck)

4.

1 (b) (a) 1
(b1) 가 ;
(b2) (b1) 가 1

5.

1 (c) MAC(Media Access Controller)

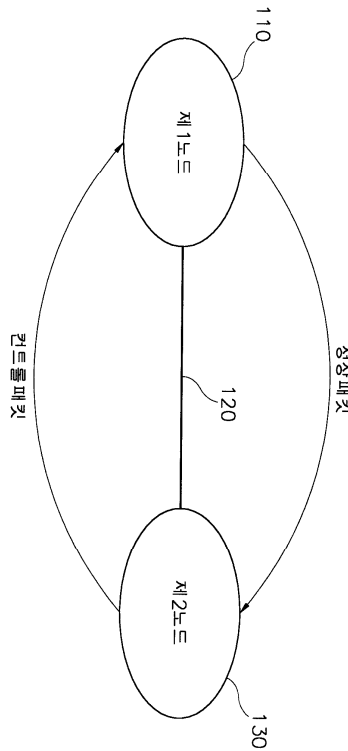
6.

1 (c) ,

7.

1 (d) / 가 1 가 1
(d1) (c) 1 , 가 1
2 ; 가 2
(d2) (c) 2 / 가 2
2 ; 가 2
(d3) (d2) 가 2
3 ; 가 3
(downgrade) ;
(d4) (d3) 3
4 4
(upgrade) ;
(d5) (d4) 4

1



2

