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2002 - 0090185
2002 11 30

(21) 10 - 2002 - 0064490
(22) 2002 10 22

(71) 2 612

(72) 2 209 1201

4 1204 - 95 1 6

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(54) F M D A R C G P S

FM DARC GPS
GPS

. FM DARC

DGPS

GPS

1

FM DARC, GPS, DGPS, KDGPS, RTCM SC - 104, PCMCIA Card Type II, PCMCIA Card, CF Card, DGPS
, DGPS ,

1 FM DARC GPS

DARC 가

DGPS

GPS

2

DARC 가

DGPS

GPS

3 FM DARC DGPS GPS , ,

4 FM DARC DGPS Format KDGPS .

5 DGPS RTCM SC - 104 Word 가 Word Header

6 PCMCIA Card Type II .

< >

1: GPS 2: FM

3: Down Converter 4: (Mixer)

5: Code 6: C/A

7: 8: GPS

9: DARC 10: FM RF

11: (Local Osc.) 12: (BPF), IF

13: FM DARC 14: PLL

15: 16: Flash ROM

17: RAM 18: LCD

19: LCD 20: GPS

21: 가 (, , , ,)

22: DGPS (Monitoring Station) 23: DGPS (Reference Station)

24: FM DARC (, DARC Encoder, FM ,)

25: FM Radio 26:

27: FM 28: FM DARC

29: DGPS

30: Format (FM DARC Format - - > RTCM SC - 104 Format)

31: GPS (, ,)

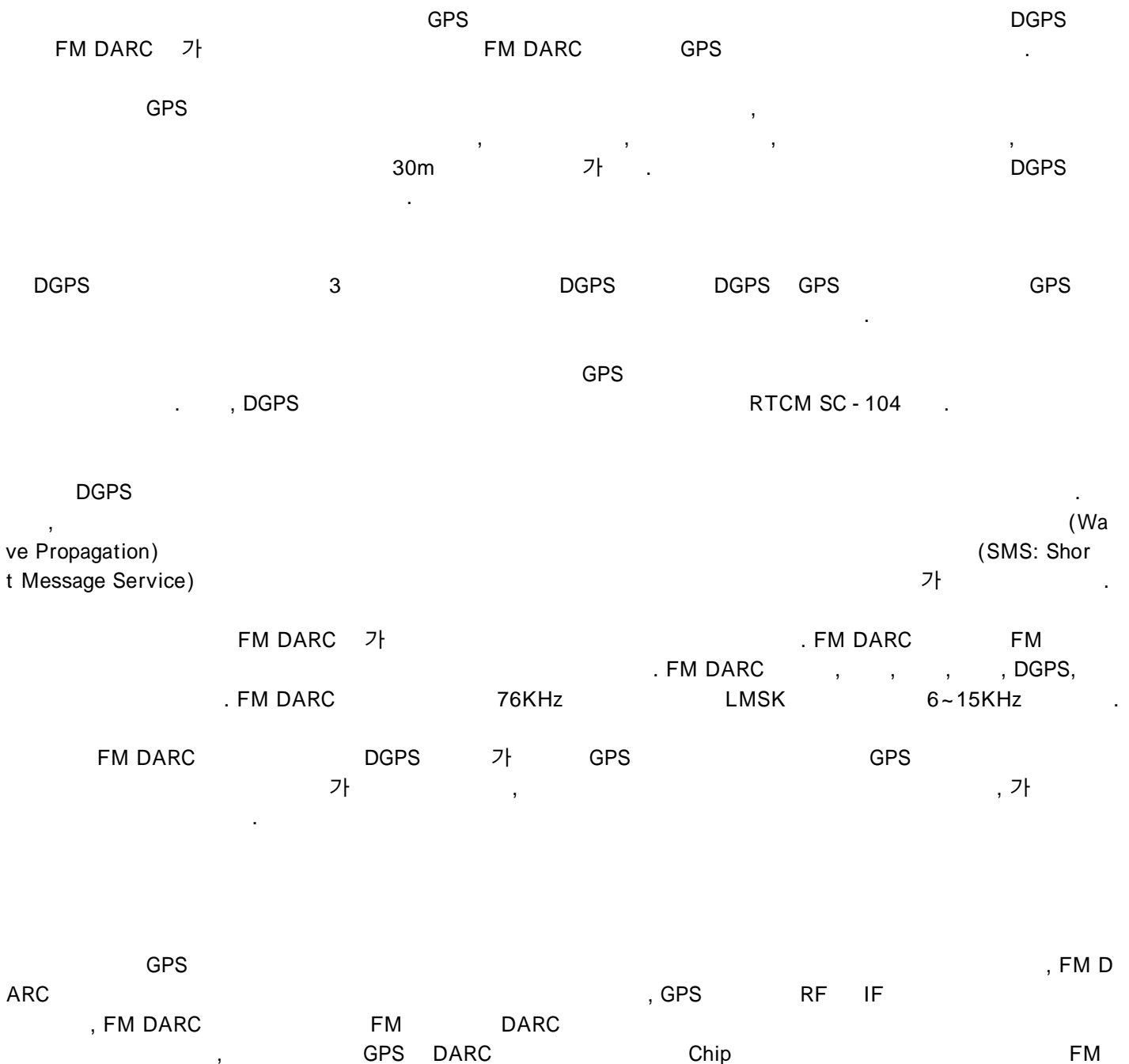
32: FM Radio 33: FM DARC RF IF

34: GPS RF/IF

35: GPS DGPS

36: FM DARC

37:



DARC GPS DGPS , GPS GPS FM DARC

PDA PCMCIA Card Type II

" FM DARC GPS "

1 GPS FM DARC

1.5GHz GPS GPS (1) Down Converter(3)
 10.7MHz Down Conversion , C/A (6) C/A
 (4) BPSK 가 (5) , GPS
 GPS (8) 4 GPS

88MHz~108MHz FM FM DARC FM (2) , RF (10)
 가 (11) 10.7MHz 가
 10.7MHz - 3dB 230KHz IF (12) 가
 FM DARC LMSK , FM DARC (13) LMSK (9)
 DARC DARC (9) PLL(14) ,
 DARC (15) , RA
 F - ROM(16)
 M(17) FM DARC

FM DARC DARC Format DGPS RTCM SC - 104 Format GPS
 (8) GPS DGPS

GPS LCD (18) FM DARC LCD(19) 가

2 FM DARC DGPS 가
 FM DARC (24) , 가 (21) 가 , DGPS (23)
 (22) RTCM SC - 104 Format DGPS DARC Format DGPS DARC Encod
 er LMSK FM FM FM

3 DGPS . FM (2) FM DARC

가 FM (27) LMSK 가 FM DARC (28) DGPS (29)가
 DARC Format RTCM SC - 104 Format Format Format GPS

4 FM DARC Format . FM DARC DGPS 16
 BIC, 16 , 6 Message Type 13 Modified Z - Count 5 Length of Frame
 24 Data Header , DGPS 1 Scale Factor, 5 Satellite ID, 14 PR
 C(Pseudorange Corrections), 7 RRC(Rangerate Corrections), 8 IODE(Issue Of Data Ephemeris)
 35 DGPS Data , 14 CRC 82 Parity ,

16 BIC, 16 , 가 31 4
 가 가 , 35 가 4 가 , 16 CRC가 가 , 14 CRC 82
 Parity .

5 RTCM SC - 104 2 Word Header . 8 P
 reamble (Fixed)/ (Tentative)/ (Reserved)/ (Undefined)/ (Retired)
 14 Message Type Frame ID, DGPS Station ID, 6 Parity
 Word Header ,
 13 Modified Z - count, Frame 3 (Sequenc
 e Number), Frame 5 Length of Frame, 가 3
 Station Health .

6 FM DARC GPS PDA
 PCMCIA Card Type II . FM
 (32) , FM RF DARC (33) DARC ,
 DARC DARC (36) (37)
 RF (34) GPS (35) GPS (34) GPS GPS & GPS RF & IF
 , GPS (35) GPS ,
 , PCMCIA Card DARC DGPS ,
 , (37) Display .

PCMCIA Card Type CF(Compact Flash) Card Type 가 .

FM DGPS 가 ,
 가 (, , ,) DGPS FM DARC 가
 가

가

FM DARC

DAB

DAB Format

DGPS

(57)

1.

GPS

FM DARC

GPS RF IF

FM DARC FM DARC

GPS GPS DARC Chip FM DARC

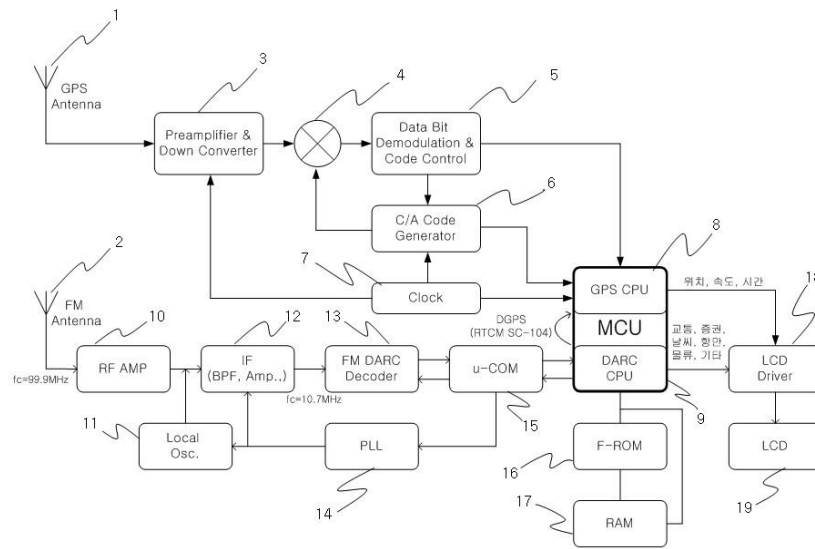
GPS GPS FM DARC DGPS

GPS FM DARC GPS

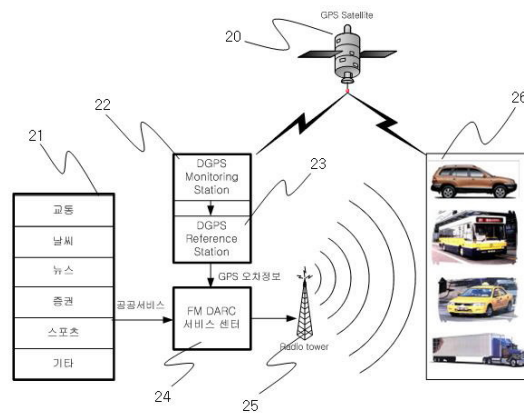
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1 FM DARC GPS PDA PCMCIA Card CF Card

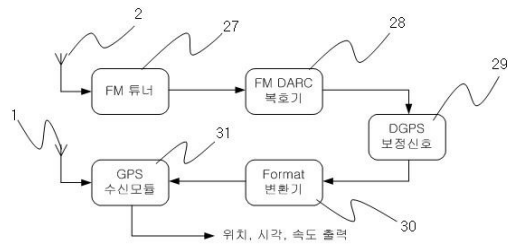
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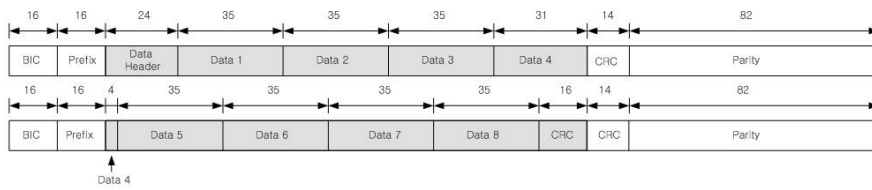
2



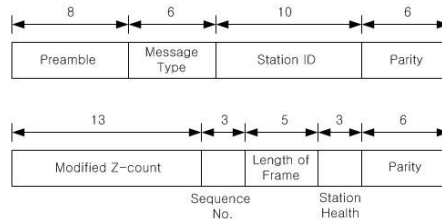
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6

