	(19) (12)		(KR) (B1)			
(51) 。Int. CI. ⁷ H04Q 1/20			(45) (11) (24)	2003 12 01 10-0408047 2003 11 20		
(21) (22)	10-2001-0084286 2001 12 24		(65) (43)	2003-0054165 2003 07 02		
(73)		20				
(72)			116 603			
(74)						
(54)						
(Standby) (Dua	al) 1,2	;	•	, (Active)		
PCI	;		PCI ;			
1						
1 2 3 2	(RTOS)					
3 2 **** 101, 201 : 1 103, 203 : 105, 205 : PCI	*** 102, 202 : 2 104, 204 : 106, 206 :			•		

- 1 -

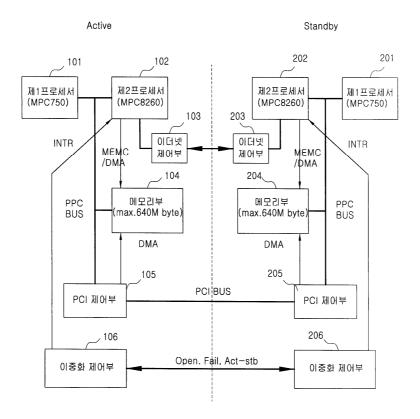
```
(fault tolerancy)
          가
                        가
                                (duplex)
                                                                                       (multi-processo
                   (load sharing)
r)
                         (synchronized duplex: hot standby)
                                                                                 (asynchronized duplex
: warm or cold standby)
                   (Process instance)
                                                                                                    가
                                   가
                                                   가
                                                                  (overhead)
                              (standby)
                                                                         가,
                                                                                 (active)
                                               가
                                                       가
            (data consistency)
                                                                                                (contin
uous operation)
                                               (active side)
                                                                                (active, standby)
                              (TDX-10, No.5 ESS, STAREX Series)가
        (concurrent write)
                                                              (overhead)가
                                                                                                   가
                                                (TDX-1))
                    DCN(Digital Cellular Network) PCS(personal communication service),
                                                                                               WLL(wi
reless local loop)
                                                                           (active, standby)
             (Concurrent write)
                                                                                  (CPU)가
                                                           (Active)
        (Local Memory)
                               (Access)
                                                                  (Standby)
                                                                                 가 가
                                       (Active, Standby Processor)
              PC(Program Counter)
                                                                            PC(Program Counter)가
                                            2G
                                                     (DCN, PCS)
                                                                         , 2.5G
                                                                                 3G
                                                                                          (GENEREX,
STAREX-IS)
                     가
                                                                                               (active,
standby)
                                (Concurrent write)
                                          (Active)
                                                                      (Standby)
                                                                          (Dual)
                                                                                             1,2
                                                             PCI
                   PCI
```

```
(RTOS)
                                           ; MMC(man machine communication),
                                                                                         (Concurrent write
                                                 PCI
)
                              (fault tolerancy)
                                                                             (reconfiguration)
                                                                                                       (rec
                                                                      OS)
overy)
                                    (critical),
                                                                                            (major),
                                                                                                         (
                                                 (major),
                                                              (minor)
minor)
                                      (recovery routine)
                                                                         (critical)
                                                  (access)
                                                                        (recovery)
                                                                       , OS(Operating System)가
  (Standby Loading)
                                                                                     (Power off),
                  가
                                                                           가
                                                                                  가
                                       (graceful)
                                                          (dirty)
      (graceful)
                                                                                       가
         (dirty)
                                                             가
    (restart)
  1
                                                                                                        (D
ual)
                 1,2
                             (101, 102, 201, 202) ,
             (103, 203);
                                                                                          (104, 204) ;
   PCI
                                         PCI
                                                   (105, 205)
                                       (106, 206)가
                                                                        (Active)
                                                                                           (Standby)
                                                                 (Main Path)
                                                                                    PCI
       1
    PCI
               33MHz
                                     DMA(Direct memory access)
                                                          (MPU)
```

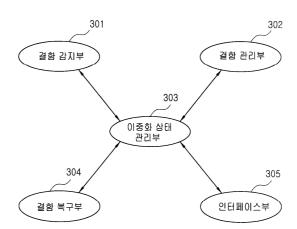
```
(RTOS)
                                                         2
          (301) ,
                                                                (302) ,
                                   (303) ,
                                                                                (304) ,
                                                                                                 MMC(
man machine communication), shell
                                                       (305)
 3
                               (RTOS)
                                             가
                                                          (S101),
                                                                                           (Idle)
                    .
가(S201),
(task)
                                                                     (S202).
                                 가
                                                                       (S102).
                      가
                                                                                                가 가
          (S103).
                      가
                                                                                                  (read)
    (S104),
                PCI
                                                                    (S203).
                                                              가
         PCI
                                                                                           (S105),
가
                                                                                     (S204).
                       가
                                                                                                    (S
106).
                                                                  가
                      가
                                      , PCI
              PCI
                                                2G
                                                                             (Concurrent Write)
      2G
                                                 D-
                                (MPU)
                                                          (MMU: Memory Management Unit)
                PCI
                                                                                     , 가
                                                        (text + static data area)
                                       (dump)
                         가
         2G
    (Path)
                                                                               (fault isolation)가
                              D-
                                                       (concurrent write)
    , 2G
      가
                                              PCI
                                                                                 (dump)
                PCI
                                                                                            (dump time
                                                           (Program Counter, Register
)
    , 2G
                                                                            가
  , C- (16-bit wide)
                                                                                (2byte
                                                             가
    FIFO(First In First Out),
                                                  ID
                                                                                                   S-
                                     IPC(Inter Processor Communication)
                PCI
                                                               PCI
                                                                                          (Fast Ethernet
)
                                                                                                  가
                                                       가
(57)
       1.
    (Active)
                               (Standby)
```

			(Dual)	1,2	;		
;							
Р	CI		;		PCI	;	
1	2.	,				PCI	
	3.						
1		, (dump)			,		
3	4.	,	, PC(Program	Counter).			
		, 가	, (, ,			
(Δ	5. ctive)	(Standby)					
(,,	01110)	(Otanaby)	,		,	;	
			,		;		
MMC(man machine communication), (shell)							
_	6.			•			
5		,			1 2	,	
		,		3	2	,	
•	7.					71	
6		, 2		,	,	가	
		가				•	

1



2



3

