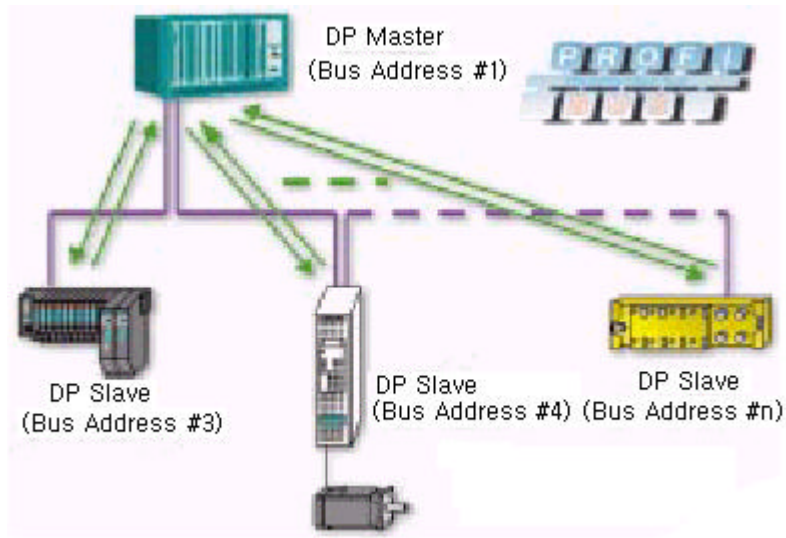


# PROFIBUS in Motion

가 Motion Control " PROFIBUS PROFIBUS-DP ( DP 1) 가 1 가 #3 1. PROFIBUS-DP Mechanism PROFIBUS IEC 61158



PROFIBUS

가

PROFIBUS

, OEM

21 PROFIBUS가

가

PA,

DPV1(DP ),

light curtain

(Motion Control)

(poll-cycle)

가

가

( , HMI

). 가 HMI

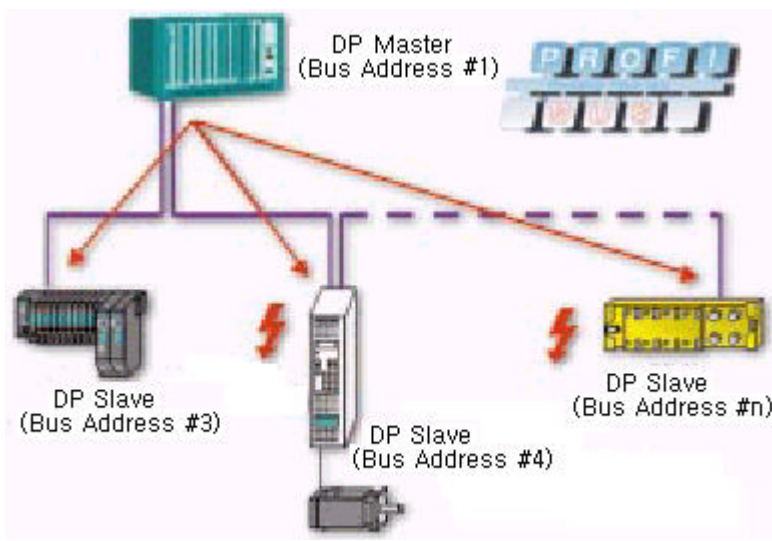
/

가 가

1997 , 가  
 : 가 DP  
 가 PROFIBUS-DP  
 가  
 HMI "Sync-Mode"  
 ( , 가  
 : ) 2  
 OEM

PROFIBUS DP "Sync Mode"  
 ? PROFIBUS International ( , )  
 DP 가 "Sync"  
 "Global\_Control" Telegram

Motion Control



( )

가

가

2. "Sync" Feature

( , +/-10V )

Telegram

PROFIBUS (broadcast)  
 #127 ( )  
 ). "Sync"  
 ( 2 #4

가

PROFIDRIVE

#n) Telegram

1991

"Sync"

( 2

#3)

가

가

"Global\_Control"

" "

. MC

(

(electronic line shaft)

),

PLC( )

가

. 가 가

(clock synchronization)

( )

(lateral communication)

가

가

?

MC

3

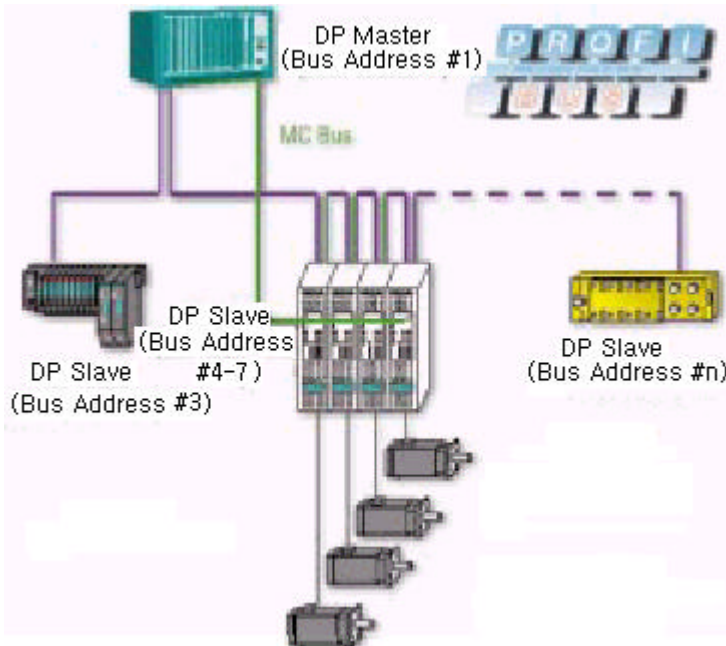
PROFIBUS

(

PROFIDRIVE

PLC)

. PROFIBUS



(Clock Synchronization)

3. MS Solution

(jitter) 1μs

, DP ( ) . DP (S1, S2, S3)

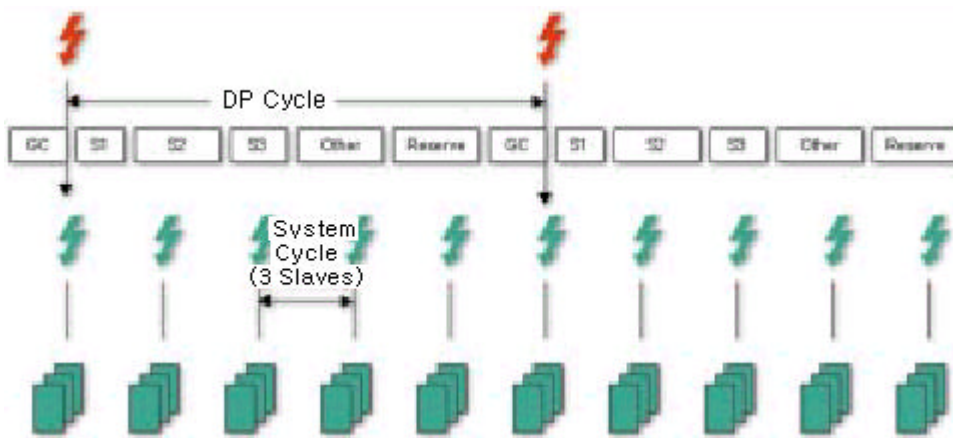
, 2 ( ), ( ),

( ) "Global\_Control"

가 , 가

( ). MC가 DP

ASIC



"Global\_Control"

4. MC solution based on PROFIBUS

ASIC

PROFIBUS

("Global\_Control"

Telegram

).

PLL

, DP

가

PROFIBUS

2

가?

DP 가

가

"Sync"

"Global\_Control"

PROFIDRIVE

4

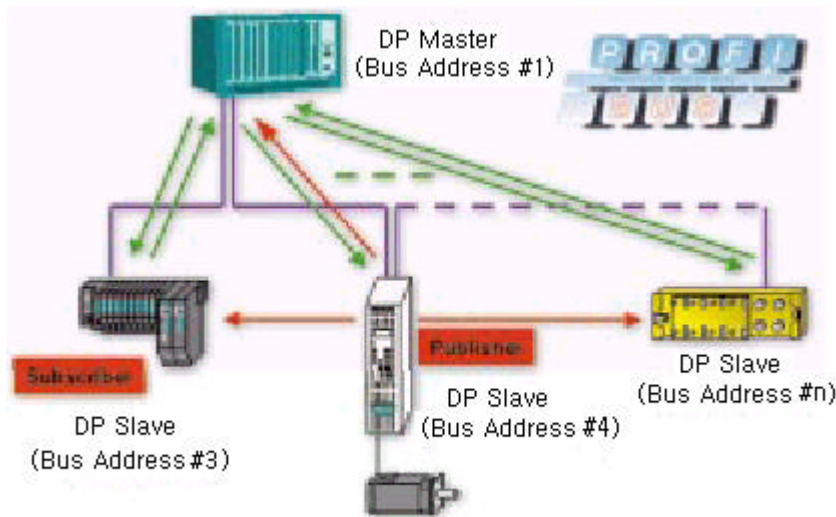
. DP

PROFIBUS

MC

가?

! DP "가 (subscriber)" 가  
 "Global\_Control" Telegram Slight Modification  
 (MC  
 ).  
 ). 가 Slight Modification  
 PROFIBUS MC 가 가  
 가? PROFIBUS-DP 가 가  
 가 I/O 가 가  
 가 DP 가?  
 ! PROFIBUS Telegram DP "Global\_  
 PROFIBUS Control" Telegram Telegram 가?  
 5 PROFIBUS-DP 가 가  
 가



가  
 가 (Telegram )  
 " /가 DP BUS" 方  
 5. 가?  
 " (publisher)" ! 가

가

PROFIBUS /  
PA, DPV1 PROFIsafe  
가

ALLEN-BRADLEY SCANPORT  
PROFIBUS

1560-PDP Allen-Bradley  
SCANport Siemens  
가 PROFIBUS-DP

1560-PDP

SCANport

ProSoft Technology  
www.prosoft-technology.com

**SIMATIC S7-200 EM277 PROFIBUS-DP**

EM277 PROFIBUS-DP  
S7-200 가  
6ES7 277-0AA20-  
0XA0 EM277 PROFIBUS-DP  
CPU 222, CPU 224  
CPU 226 PROFIBUS-DP 6  
MPI

EM277 PROFIBUS-DP  
S7-200 CPU  
PROFIBUS-DP  
EM277 I/O  
S7-200 CPU PROFIBUS  
DP EM277  
PROFIBUS-DP  
9600baud 12Mbaud  
PROFIBUS  
EM277 DP  
I/O  
가  
DP  
, EM 277 I/O  
EM277 S7-200 CPU  
가 (variable memory)

S7-200 CPU 가  
가  
S7-200 CPU 가  
EM277  
PROFIBUS-DP DP  
DP  
SIMATIC  
S7-300/S7-400 CPU  
MPI  
:  
(02-865-0733)  
(02-3665-8277)