CDP Protocol

▶ Port Configuration

- COM4 9,600 bps
- Flow control : None
- Parity bit : None
- Stop bits : 1 bit
- Data bits : 8 bits

▶ Command

Symbol	Hexadecimal	Description
BS	08	Move cursor left
HT	09	Move cursor right
LF	0A	Move cursor down
US LF	1F 0A	MOVE CURSOR UP
HOM	0B	Move cursor to home position
US B	1F 42	Move cursor to bottom position
CR	0D	Move cursor to left-most position
US CR	1F 0D	Move Cursor to right-most position
CLR	0C	Clear screen
CAN	18	Clear cursor line
ESC @	1B 40	Initialize display
US $ x y	1F 24 x y	Move Cursor to specified positon $1 \leq$ x(column) ≥ 16 ; $1 \leq$ y(row) ≥ 2
US C n	1F 43 n	Select/cancel cursor display n=0, canceled ; n=1, selected
US MD1	1F 01	Specify overwrite mode
US MD2	1F 02	Specify vertical scroll mode (default)
US MD3	1F 03	Specify horizontal scroll mode

▶ Extended Command

Command	Hexadecimal	Description
ESC V	1B 56	Version check
ESC M	1B 4D	Set Start Message
ESC F	1B 46	Firmware Download (Reserved)

▶ Version check

ESC	V
0x1B	0x56

▷ Reply

HEAD	Type	Firmware Version
"CDP"	"L"	"0000"

→ Head
　0x43 0x44 0x50

→ Type
　L : LCD 16 x 2
　V : VFD 20 x 2

→ Firmware Version
　0000 ~ 9999

▶ Set Start Message

ESC	M	Message
0x1B	0x4D	32 bytes

▷ Description

전원이 켜지면 기본적으로 표시되는 메시지 설정

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Character table

High / Low	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	.	.		0	@	P	`	p	€	.	.	.	.	.	.	.
01	.	.	!	1	A	Q	a	q	.	.	.	.	.	.	.	.
02	.	.	"	2	B	R	b	r	.	.	.	.	.	.	.	.
03	.	.	#	3	C	S	c	s	.	.	.	.	.	.	.	.
04	.	.	$	4	D	T	d	t	.	.	.	.	.	.	.	.
05	.	.	%	5	E	U	e	u	.	.	.	.	.	.	.	.
06	.	.	&	6	F	V	f	v	.	.	.	.	.	.	.	.
07	.	.	'	7	G	W	g	w	.	.	.	.	.	.	.	.
08	.	.	(	8	H	X	h	x	.	.	.	.	.	.	.	.
09	.	.	)	9	I	Y	l	y	.	.	.	.	.	.	.	.
0A	.	.	*	:	J	Z	j	z	.	.	.	.	.	.	.	.
0B	.	.	+	;	K	[	k	{	.	.	.	.	.	.	.	.
0C	.	.	,	<	L	¥	l	|	.	.	.	.	.	.	.	.
0D	.	.	-	=	M	]	m	}	.	.	.	.	.	.	.	.
0E	.	.	.	>	N	^	n	→	.	.	.	.	.	.	.	.
0F	.	.	/	?	O	_	o	←	.	.	.	.	.	.	.	.

OPOS Configuration

▶ 개요

- 호환성을 유지하기 위해 별도의 OPOS Driver를 설치하기 않고, DSP840 모델의 OPOS Driver를 사용합니다.

- OPOS Driver 설치에 대한 자세한 사항은 DSP840 OPOS Drvier와 함께 제공되는 DSP840 OPOS UserGuide를 참고하시기 바랍니다.

- DSP840 모델에 비해 앞에서 명시된 명령 이외의 것들은 지원하지 않습니다.

▶ OPOS Driver Installation

- Click DSP840.bat

- Click YES on all pup-up message

▶ Parameters Setting

- Change Baud rate and COM port
  ▷ Run regedit under Command Pormpt
  Go to
  HKEY_LOCAL_MACHINE\SOFTWARE\OLEforRetail\ServiceOPOS\LineDisplay\DSP840

  ▷ Click "Port" on the right side of screen change to different port number

  ▷ Click "Baudrate" on the right side of screen change to "9600"

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