



CDP Protocol

► Port Configuration

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

► EPSON 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 $1 \leq x(\text{column}) \leq 16 ; 1 \leq y(\text{row}) \leq 2$
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)
ESC D n	1B 44 n	Underline

▶ Version check

ESC	V
0x1B	0x56

▷ Reply

HEAD	Type	Firmware Version
"CDP"	"L"	"0000"
<div>→ Head 0x43 0x44 0x50</div> <div>→ Type L : LCD 16 x 2 V : VFD 20 x 2 (under construction)</div> <div>→ Firmware Version 0000 ~ 9999</div>		

▶ Set Start Message

ESC	M	Message
0x1B	0x4D	32 bytes

▷ Description

전원이 켜지면 기본적으로 표시되는 메시지 설정



▶ Under line

ESC	D	On/Off
0x1B	0x44	0x01 : On / 0x00 : Off

▷ Description

글자에 Underline 표기

하드웨어 한계로 7 글자까지만 Underline 가능



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	i	y	.	.	.	.	.	.	.	.
0A	.	.	*	:	J	Z	j	z	.	.	.	.	.	.	.	.
0B	.	.	+	;	K	[	k	{	.	.	.	.	.	.	.	.
0C	.	.	,	<	L	¥	l	|	.	.	.	.	.	.	.	.
0D	.	.	-	=	M	]	m	}	.	.	.	.	.	.	.	.
0E	.	.	.	>	N	^	n	→	.	.	.	.	.	.	.	.
0F	.	.	/	?	O	_	o	←	.	.	.	.	.	.	.	.