EEI TECHNOLOGY ElecStudio

05P-FLUORITE

EPP-001-2217

PRODUCT CHANGE DESCRIPTION & RECORD

PRODUCT P/N

P/N	BEFORE	AFTHER
	EPC-INBN0BV1287UD(2022-02-23)	EPC-INBN0BV1294UD(2023-04-28)

PRODUCT HARDWARE DIFFERENCE

EPC-INBN0BV1287UD(2022-02-23)	EPC-INBN0BV1294UD(2023-04-28)
POWER CONSUMPTION	
5.5W (+5.0V INPUT,1024 DIMMING LEVEL)	3.1W (+5.0V INPUT,1024 DIMMING LEVEL)
ILLUMINATION	
1200lux (1024 DIMMING LEVEL)	720lux (1024 DIMMING LEVEL)
GRAM SIZE	
256x80	256x128
PATTERN AREA PIXEL	
256x50	256x48
DC POWER SOCKET MODEL	
DC-012A-25A	DC044
VFD DISPLAY MODEL	
GP1287BI	GP1294AI

PRODUCT FUNCTION DIFFERENCE

EPC-INBN0BV1287UD(2022-02-23)	EPC-INBN0BV1294UD(2023-04-28)
DIMMING ADJUST REGISTER	

DIMMCTR(10bit)

1ST BYTE	COMM	0xA0
2ND BYTE	MSB	DIMMCTR [9:8]
3RD BYTE	LSB	DIMMCTR [7:0]

DIMMCTR(10bit)

1ST BYTE	COMM	0xA0
2ND BYTE	LSB	DIMMCTR [7:0]
3RD BYTE	MSB	DIMMCTR [9:8]

PRODUCT FUNCTION DIFFERENCE

EPC-INBN0BV1287UD(2022-02-23)	EPC-INBN0BV1294UD(2023-04-28)

CLEAR GRAM

GRAMWR		
1ST BYTE	COMM	0xF0
2ND BYTE	XPOS	0x00
3RD BYTE	YPOS	0x00
4TH BYTE	RETURN	0x7F
5TH BYTE	DATA1	0xFF
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N BYTE	DATA4096	0xFF

GRAMCLR		
1ST BYTE	COMM	0x55

DISPLAY INITIALIZATION

Left flowchart (EPC-INBN0BV1287UD):

电源启动 Power-ON

软件复位 Software Reset → WriteCommand(0xAA)

VFD模式设定 VFD Mode Setting → WriteCommand(0xCC) / WriteData(0x01) / WriteData(0x00)

显示区域设定 Display Area Setting → WriteCommand(0xE0) / WriteData(0xFF) / WriteData(0x7F) / WriteData(0x00) / WriteData(0x00) / WriteData(0x20) / WriteData(0x00) / WriteData(0x80)

内部速度设定 Internal Speed Setting → WriteCommand(0xB1) / WriteData(0x20) / WriteData(0x3F) / WriteData(0x00) / WriteData(0x01)

亮度设定 Dimming Level Setting → WriteCommand(0xA0) / WriteData(0x00) / WriteData(0x28)

清除显存数据 Clear GRAM → WriteCommand(0x55)

延时20毫秒 Delay 20ms

显示位置偏移 Display Position Offset → WriteCommand(0xC0) / WriteData(0x00) / WriteData(0x00)

显示模式设定 Display Mode Setting → WriteCommand(0x80) / WriteData(0x00)

Right flowchart (EPC-INBN0BV1294UD):

电源启动 Power-ON

软件复位 Software Reset → WriteCommand(0xAA)

VFD控制器初始化 VFD Controller Init → WriteCommand(0xCC) / WriteData(0x01) / WriteData(0x1F) / WriteData(0x00) / WriteData(0xFF) / WriteData(0x2F) / WriteData(0x00) / WriteData(0x20)

亮度设定 Dimming Level Setting → WriteCommand(0xA0) / WriteData(0x28) / WriteData(0x00)

清除显存数据 Clear GRAM → ClearGRAM()

延时20毫秒 Delay 20ms

显示位置偏移 Display Position Offset → WriteCommand(0xC0) / WriteData(0x00) / WriteData(0x00)

显示模式设定 Display Mode Setting → WriteCommand(0x80) / WriteData(0x00)

振荡器初始化 Oscillator Init → WriteCommand(0x78) / WriteData(0x08)