CHIP: LPC18xx/43xx LCD driver

LPC18xx/43xx chip specific drivers

Detailed Description

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Chip_LCD_Init (LPC_LCD_T *pLCD, LCD_Config_T *LCD_ConfigStruct) Initialize the LCD controller.
Chip_LCD_DeInit (LPC_LCD_T *pLCD) Shutdown the LCD controller.
Chip_LCD_PowerOn (LPC_LCD_T *pLCD) Power-on the LCD Panel (power pin)
Chip_LCD_PowerOff (LPC_LCD_T *pLCD) Power-off the LCD Panel (power pin)
Chip_LCD_Enable (LPC_LCD_T *pLCD) Enable/Disable the LCD Controller.
Chip_LCD_Disable (LPC_LCD_T *pLCD) Enable/Disable the LCD Controller.
Chip_LCD_SetUPFrameBuffer (LPC_LCD_T *pLCD, void *buffer) Set LCD Upper Panel Frame Buffer for Single Panel or Upper Panel Frame Buffer for Dual Panel.
Chip_LCD_SetLPFrameBuffer (LPC_LCD_T *pLCD, void *buffer) Set LCD Lower Panel Frame Buffer for Dual Panel.
Chip_LCD_Cursor_Config (LPC_LCD_T *pLCD, IP_LCD_CURSOR_SIZE_OPT_T cursor_size, bool sync) Configure Cursor.
Chip_LCD_Cursor_Enable (LPC_LCD_T *pLCD, uint8_t cursor_num) Enable Cursor.
Chip_LCD_Cursor_Disable (LPC_LCD_T *pLCD, uint8_t cursor_num) Disable Cursor.
Chip_LCD_Cursor_LoadPalette0 (LPC_LCD_T *pLCD, uint32_t palette_color) Load Cursor Palette.
Chip_LCD_Cursor_LoadPalette1 (LPC_LCD_T *pLCD, uint32_t palette_color) Load Cursor Palette.
Chip_LCD_Cursor_SetPos (LPC_LCD_T *pLCD, uint16_t x, uint16_t y) Set Cursor Position.
Chip_LCD_Cursor_SetClip (LPC_LCD_T *pLCD, uint16_t x, uint16_t y) Set Cursor Clipping Position.
Chip_LCD_EnableInts (LPC_LCD_T *pLCD, uint32_t ints) Enable Controller Interrupt.

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STATIC INLINE void Chip_LCD_DisableInts (LPC_LCD_T *pLCD, uint32_t ints)
Disable Controller Interrupt.

STATIC INLINE void Chip_LCD_ClearInts (LPC_LCD_T *pLCD, uint32_t ints)
Clear Controller Interrupt.

void Chip_LCD_Cursor_WriteImage (LPC_LCD_T *pLCD, uint8_t cursor_num, void *Image)
Write Cursor Image into Internal Cursor Image Buffer.

void Chip_LCD_LoadPalette (LPC_LCD_T *pLCD, void *palette)
Load LCD Palette.
```

Function Documentation

Clear Controller Interrupt.

Parameters

pLCD: The base of LCD peripheral on the chip

ints : OR'ed interrupt bits to clear

Returns

None

Definition at line 233 of file lcd_18xx_43xx.h.

Configure Cursor.

Parameters

: The base of LCD peripheral on the chip

cursor_size : specify size of cursor

- LCD_CURSOR_32x32 :cursor size is 32x32 pixels
- LCD CURSOR 64x64 :cursor size is 64x64 pixels

sync : cursor sync mode

- TRUE :cursor sync to the frame sync pulse
- FALSE :cursor async mode

Returns

None

Definition at line 68 of file lcd_17xx_40xx.c.

Disable Cursor.

Parameters

pLCD : The base of LCD peripheral on the chip

cursor_num : specify number of cursor is going to be written this param must < 4</pre>

Returns

None

Definition at line 154 of file lcd_18xx_43xx.h.