La BlueFrog-V1 Rel-2.0 KickStart V1

Low-level API Contents

```
Custom Type Definitions:
(from file custom types.h)
typedef enum {
 FALSE = 0,
 TRUE = 1
boolean t;
On-board LEDs and Slider Switch Control:
(from file LBF_LED+Switches_lowlevAPI.h)
void Red Led ON(void);
void Red Led OFF(void);
void Red Led TOGGLE(void);
void Green Led ON(void);
void Green_Led_OFF(void);
void Green_Led_TOGGLE(void);
boolean t Get Slider Select1(void);
boolean t Get Slider Select2(void);
Data Flash Control:
(from file LBF_FLASH_lowlevAPI.h)
void FLASH EraseBulk(void);
void FLASH WritePage(uint8 t* pBuffer, uint32 t WriteAddr, uint16 t NumByteToWrite);
void FLASH WriteBuffer(uint8 t* pBuffer, uint32 t WriteAddr, uint32 t NumByteToWrite);
void FLASH_ReadBuffer(uint8_t* pBuffer, uint32_t ReadAddr, uint32_t NumByteToRead);
uint32 t FLASH ReadID(void);
Direct STM32 GPIO Control:
(from file LBF_GPIO_lowlevAPI.h)
#define GPIO_HIGH(PORT,PIN)
                                    .....
#define GPIO LOW(PORT,PIN)
#define GPIO_TOGGLE(PORT,PIN)
                                    .....
OLED Control:
(from file LFB OLED lowlevAPI.h)
#define OLED_CS_LOW()
#define OLED CS HIGH()
                             .....
#define OLED RS LOW()
                              .....
#define OLED RS HIGH()
#define OLED RESET LOW() ......
```

```
#define OLED_RESET_HIGH() ......
/* Colors for OLED in rgb565 format */
#define BLACK
                        0x0000
#define WHITE
                       0xFFFF
#define RED
                      0xF800
#define GREEN
                       0x07E0
#define BLUE
                      0x001F
#define YELLOW
                         0xFFE0
#define CYAN
                       0x07FF
#define LIGHT BLUE
                          0x1C9F
#define ORANGE
                         0xFD20
/* OLED SPI */
uint8_t OLED_SPI_TransferByte (uint8_t octet);
void OLED_SendCmd (uint8_t Value);
void OLED SendData (uint16 t Value);
void OLED_WriteReg (uint8_t RegName, uint8_t RegValue);
void OLED_DataStart (void);
void OLED DataEnd (void);
/* OLED Gfx Generation */
void OLED_SetRegion(uint8_t x, uint8_t y, uint8_t width, uint8_t height);
void OLED Fill (uint8 t x, uint8 t y, uint8 t width, uint8 t height, uint16 t color565);
void OLED_DisplayBuffer(uint8_t x, uint8_t y, uint8_t width, uint8_t height, uint16_t *buffer);
void OLED_Clear (void);
Power Management
(from file LBF PWR lowlevAPI.h)
void Turn_VDDH_On(void);
void Turn VDDH Off(void);
boolean_t Check_VDDH_On(void);
UART#1 Control
(from file LBF_UART1_lowlevAPI.h)
void UART SendData (uint8 t data);
uint8_t UART_ReceiveData (void);
void UART_SendString(char* pString);
Services
(from file Services.h)
void Delay_ms (volatile uint32_t nTime);
```