Flash 3 click

Flash 3 click carries an ISSI IS25LP128 IC with 128 Mbit capacity.

Features and usage notes
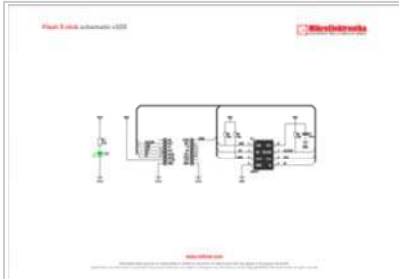
Schematic also available in PDF (http://cdn-docs.mikroe.com/images/4/4f/6DOF_IMU_click_sch

The high-performance Flash chip operates at 50MHz at Normal and 133MHz at Fast Read speeds.

It is specified to standard 100,000 erase/program cycles with more than 20 years of data retention. The data can be erased in sectors or blocks and programmed with 1 to 256 bytes per page.

Each chip has a 128-bit unique ID for each device.

Flash 3 communicates with the target board through the mikroBUS™ SPI interface with additional functionality provided by HOLD, CE and WP pins. It is designed to use a 3.3V power supply only.

The click board also comes with a firmware library (http://libstock.mikroe.com/projects/view/1895/flash-3-click) which is very similar to the one used for Flash 2 click, documented in this learn article (http://learn.mikroe.com/this-nand-nor-that-nand/).

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IC/Module	LSM6DS33 (http://www.issi.com/WW/pdf/25LP128.pdf)
Interface	SPI
Power supply	3.3V
Website	www.mikroe.com/click/flash-3/ (http://www.mikroe.com/click/flash-3/)

Programming

This example shows the Flash 3 click write routine.
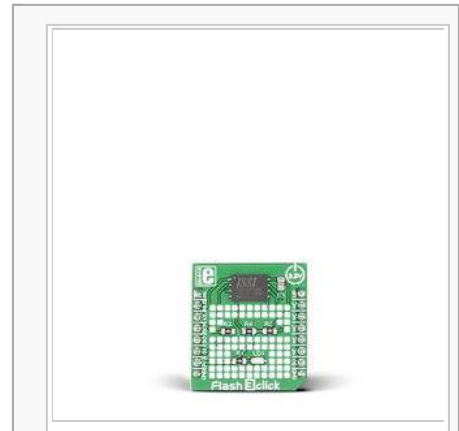
```
1 void flash_3_write
2 (
3         uint32_t address,
4         uint8_t *buffer,
5         uint32_t count
6 )
7 {
8     flash_3_write_enable( true );
9     flash_3_hal_cs( 0 );
10    flash_3_hal_cmd( FLASH_3_PP );
11    flash_3_write_address( address );
12    flash_3_hal_write( buffer, count );
13    flash_3_hal_cs( 1 );
14    while( flash_3_wip() );
15 }
```

Code examples that demonstrate the usage of Flash 3 click with MikroElektronika hardware, written for mikroC for ARM, and FT90x are available on [Libstock : http://libstock.mikroe.com/projects/view/1895/flash-3-click Libstock].

Resources

- Vendor's data sheet (http://www.issi.com/WW/pdf/25LP128.pdf)

- Flash 3 click Libstock example (http://libstock.mikroe.com/projects/view/1895/flash-3-click)

- mikroBUS standard specifications (http://www.mikroe.com/downloads/get/1737/mikrobus_specification.pdf)