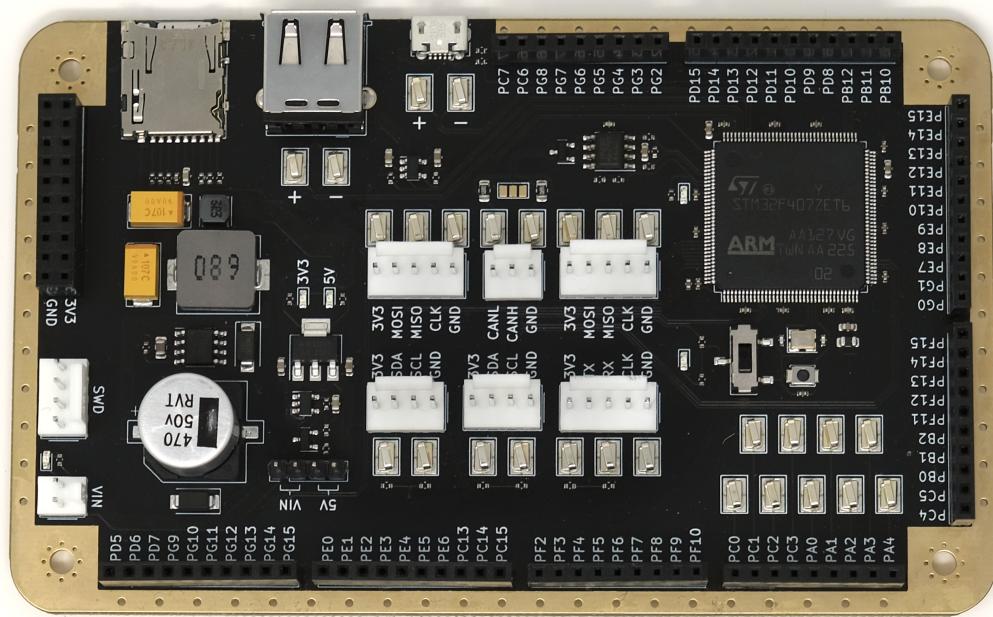


STM32 Skipper User Guide



Main Features:

- Processor - ([STM32F407ZE](#))
 - 79 dedicated GPIO (up to 94)
 - 2 USB interfaces(1 device, 1 host)
 - 4 bit microSD(Tf) card interface
 - 2 dedicated SPI interfaces
 - 2 dedicated I2C interfaces
 - 1 dedicated CAN interface
 - 1 dedicated U(S)ART interface
 - 26 Oscilloscope probe clips
 - Perimeter ground plane
 - High-voltage SMPS
 - Multiple power sources
 - 7-40v input(VIN)
 - 5v input(USB, 5V pin)
 - 3.3v Input(3V3 pin)
 - 5v 2A Output
 - 3.3v 1A Output
 - Arduino IDE compatible
 - STM3Cube IDE compatible
 - SWD interface

- Board Pin Descriptions
- Programming with STM32Cube IDE
- Basic functionality with STM32Cube IDE
- Programming with Arduino IDE
- Basic functionality with Arduino IDE

Board Pin Descriptions

Register A

PA0	GPIO
PA1	GPIO
PA2	GPIO
PA3	GPIO
PA4	GPIO
PA5	SPI_1_CLK
PA6	SPI_1_MISO
PA7	SPI_1_MOSI
PA8	U(S)ART_1_CLK
PA9	USB_1_EN
PA10	USB_1_FLG
PA11	USB_1_D-
PA12	USB_1_D+
PA13	SWDIO
PA14	SWCLK
PA15	SD_DETECT

Register B

PB0	GPIO
PB1	GPIO
PB2	GPIO
PB3	SPI_3_CLK
PB4	SPI_3_MISO
PB5	SPI_3_MOSI
PB6	U(S)ART_1_TX
PB7	U(S)ART_1_RX
PB8	I2C_1_SCL
PB9	I2C_1_SDA
PB10	GPIO
PB11	GPIO
PB12	GPIO
PB13	USB_2_DETECT
PB14	USB_2_D-
PB15	USB_2_D+

Register C

PC0	GPIO
PC1	GPIO
PC2	GPIO
PC3	GPIO
PC4	GPIO
PC5	GPIO
PC6	GPIO
PC7	GPIO
PC8	SD_DAT0
PC9	SD_DAT1
PC10	SD_DAT2
PC11	SD_DAT3
PC12	SD_CLK
PC13	GPIO
PC14	GPIO
PC15	GPIO

Register D

PD0	CAN_1_RX
PD1	CAN_1_TX
PD2	SD_CMD
PD3	CAN_1_RS
PD4	Built In LED
PD5	GPIO
PD6	GPIO
PD7	GPIO
PD8	GPIO
PD9	GPIO
PD10	GPIO
PD11	GPIO
PD12	GPIO
PD13	GPIO
PD14	GPIO
PD15	GPIO

Register E

PE0	GPIO
PE1	GPIO
PE2	GPIO
PE3	GPIO
PE4	GPIO
PE5	GPIO
PE6	GPIO
PE7	GPIO
PE8	GPIO
PE9	GPIO
PE10	GPIO
PE11	GPIO
PE12	GPIO
PE13	GPIO
PE14	GPIO
PE15	GPIO

Register F

PF0	I2C_2_SDA
PF1	I2C_2_SCL
PF2	GPIO
PF3	GPIO
PF4	GPIO
PF5	GPIO
PF6	GPIO
PF7	GPIO
PF8	GPIO
PF9	GPIO
PF10	GPIO
PF11	GPIO
PF12	GPIO
PF13	GPIO
PF14	GPIO
PF15	GPIO

Register G

PG0	GPIO
PG1	GPIO
PG2	GPIO
PG3	GPIO
PG4	GPIO
PG5	GPIO
PG6	GPIO
PG7	GPIO
PG8	GPIO
PG9	GPIO
PG10	GPIO
PG11	GPIO
PG12	GPIO
PG13	GPIO
PG14	GPIO
PG15	GPIO

*This document is a pre-release, the features outlined are subject to change upon the final release of the STM32 Skipper.