



Klipper Building Options for BTT SKR MINI E3 V1.2:

(Top) Klipper Firmware Configuration

[*] Enable extra low-level configuration options

Micro-controller Architecture (STMicroelectronics STM32) ---->

Processor model (STM32F103) ---->

[] Disable SWD at startup (for GigaDevice stm32f103 clones) (NEW)

Bootloader offset (28KiB bootloader) ---->

Clock Reference (8 MHz crystal) ---->

Communication interface (USB (on PA11/PA12)) ---->

USB ids ---->

[*1] (IPC13) GPIO pins to set at micro-controller startup

*1 select "Enable extra low-level configuration options" and configure "GPIO pins to set at micro-controller startup" to "IPC13".

[Space/Enter] Toggle/enter [?] Help [/] Search
[Q] Quit (prompts for save) [ESC] Leave menu

The "make flash" command does not work on the SKR mini E3. Instead, after running "make", copy the generated "out/klipper.bin" file to a file named "firmware.bin" on an SD card and then restart the SKR mini E3 with that SD card.

Marlin 2.0.x Firmware Changes:

In Platformio.ini file
change: **default_envs =**

STM32F103RC_btt

In Configuration.h file change:

#define SERIAL_PORT -1

#define SERIAL_PORT_2 2

#define MOTHERBOARD

BOARD_BTT_SKR_MINI_E3_V1_2

Note: Serial Port definitions in Marlin 2.0.x for this Board:

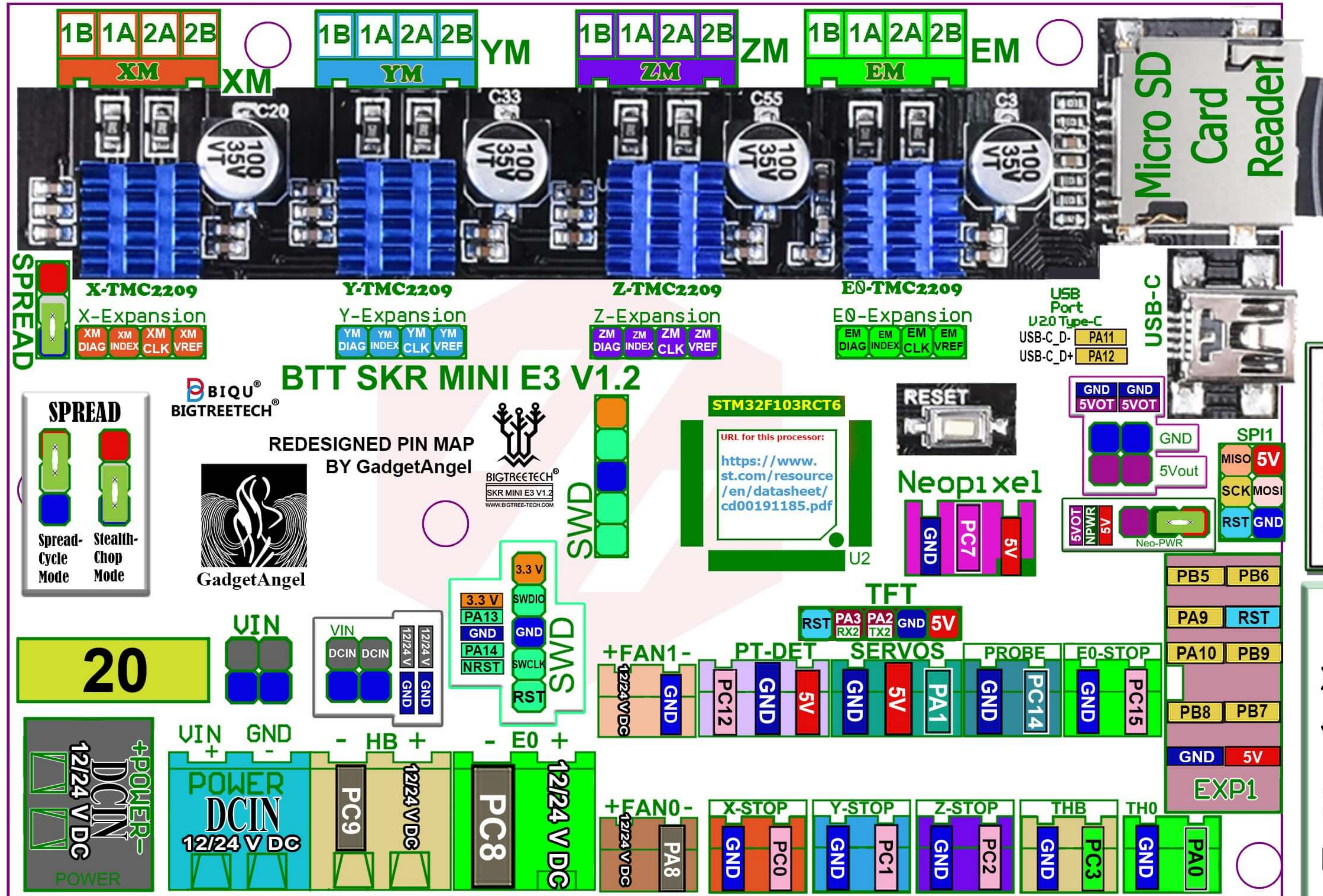
-1: USB Port; 2: TFT Port;

Micro SD Card Reader

SSEL PA4
MOSI PA7
SCK PA5
MISO PA6
DET PC4



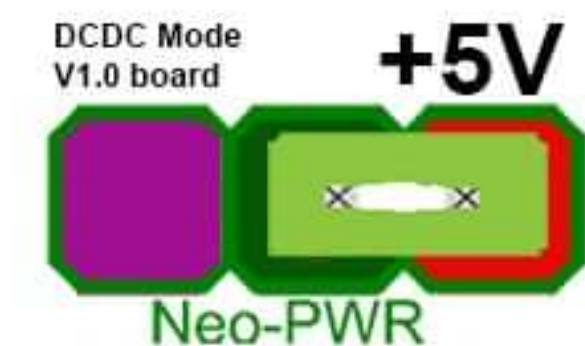
Note: If you are unsure about any of the information provided on this PIN Diagram, please ask for help from the 3D printer community, check the Processor's data sheet and board's schematic diagram.



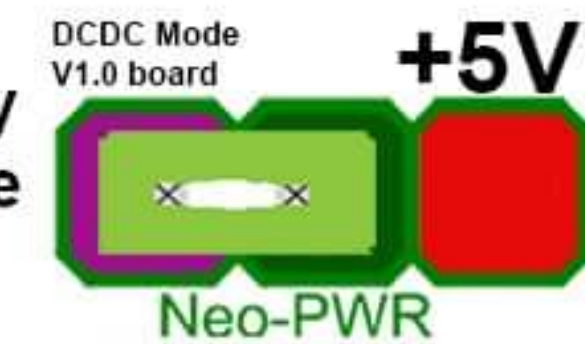
UART

XUART PB15
YUART PC6
ZUART PC10
E0UART PC11

Powered By MCU's 5V Rail



Powered By DCDC Mode V1.0 board (bridge)



SPI1 Header

Micro-SD Card Reader

SPI1

PA6 5V
PA5 PA7
RST GND

EN STEP DIR

XM PB14 PB13 PB12
YM PB11 PB10 PB2
ZM PB1 PB0 PC5
EM PD2 PB3 PB4

