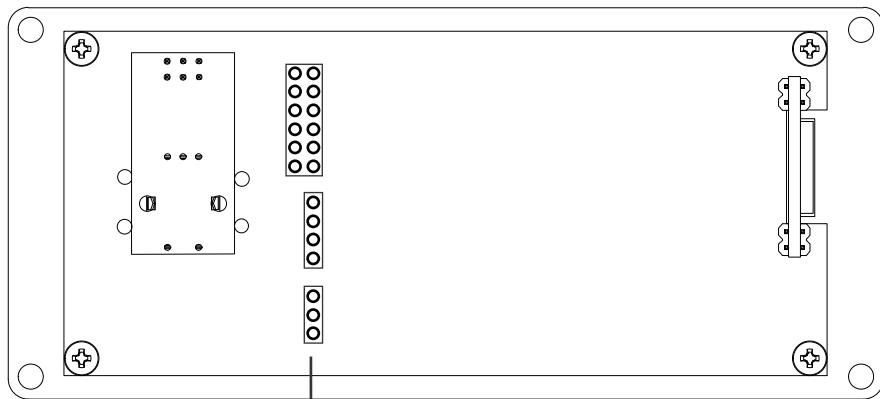
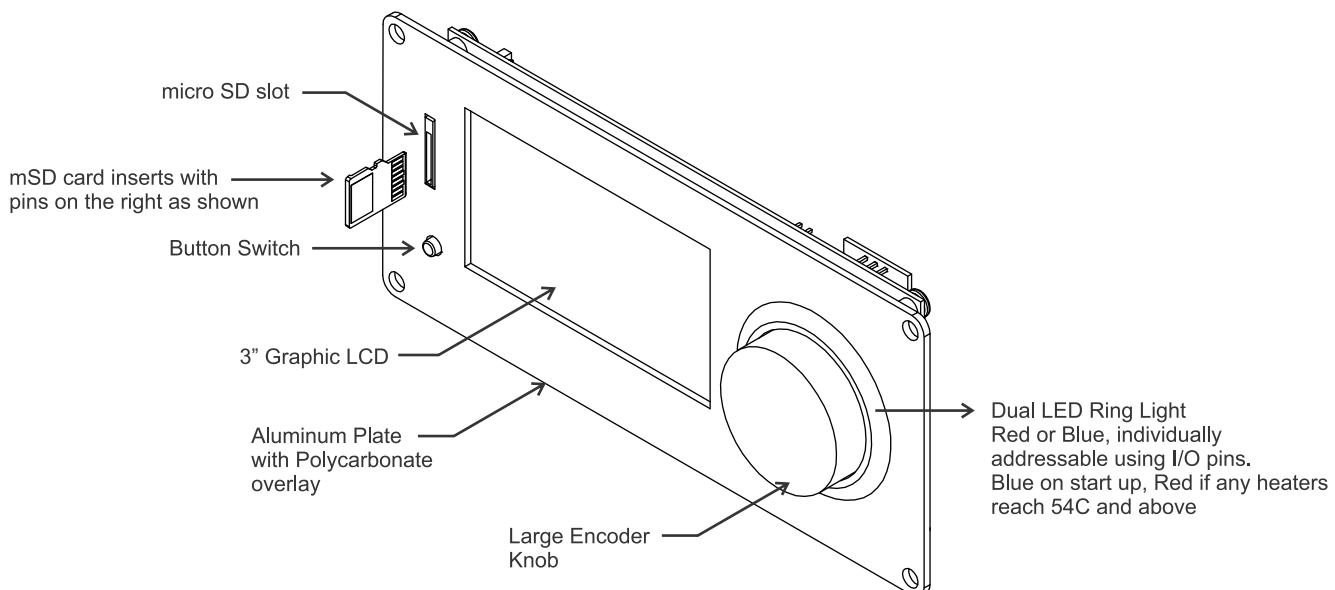


# VIKI 2.0 LCD WIRING DIAGRAM



Pin Designations

*SDCD		ENCB
ENCBTN		ENCA
SDCS		MISO
*LCS		AO
SCK		MOSI
GND		+Vin

BTN	
BUZZER	
BLUE-LED	
RED-LED	

INPUT SELECT	
5V DEFAULT	

- \*SDCD - +Vin - Input supply, requires 120mA for LCD and mSD card
- ENCBTN - GND - Ground Pin
- SDCS - MOSI - Data input for LCD and SD
- LCS - MISO - Data output for SD
- SCK - SCK - Clock for LCD and SD
- GND - AO - Reg. Sel for LCD
- GND - LCS - Chip Select for LCD
- GND - SDCS - Chip Select for SD
- GND - SDCD - Card Detect pin for SD
- ENCA - ENCA - Encoder output A
- ENCB - ENCB - Encoder output B
- ENCBTN - ENCBTN - Encoder button switch
- BTN - Panel mounted button switch
- BUZZER - Piezo buzzer
- BLUE-LED - Blue LED ring pin ( 3 to 5v, mosfet buffered)
- RED-LED - Red LED ring pin ( 3 to 5v, mosfet buffered)

**Note on universal cable** - There are 2 black and 2 gray wires on the cable. To differentiate, one black (SDCD) is marked with a white stripe near the single dupont connector and one gray wire(LCS) is marked with a red stripe. Both are illustrated in this guide as the following color boxes.

**\*UPDATE:** Viki2 is now shipped with cables that have 2 wire colors changed. Previous gray with red stripe is now green with white stripe and previous black with white stripe is now orange with white stripe. → →

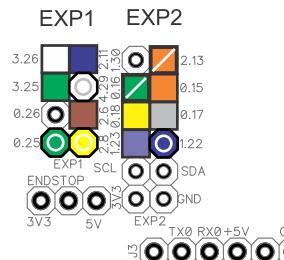
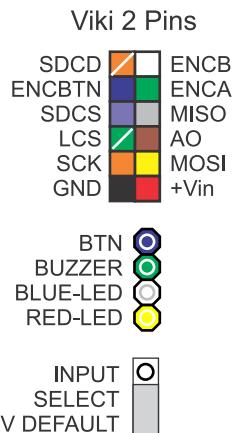
# VIKI 2.0 LCD WIRING DIAGRAM



## Azteeg X5 mini V1.1 and above using IDC cable



## Azteeg X5 mini V1.0 using universal cable



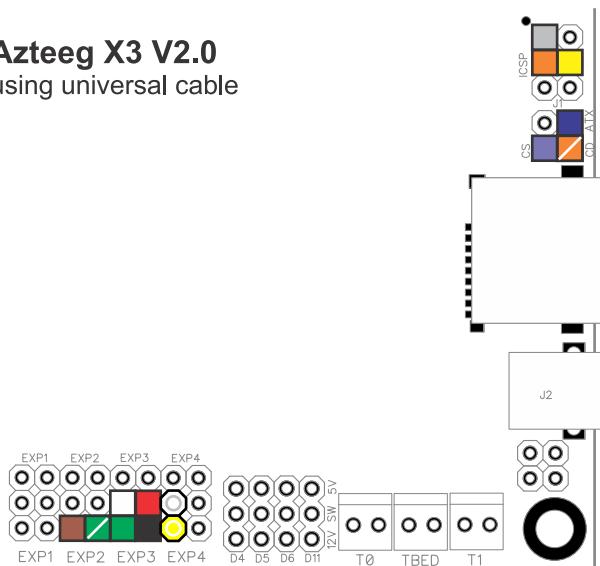
Color match wire to pin

The Viki 2.0 connects directly to the X5 mini v1.1 using an IDC cable to EXP2 and 4 wire cable to EXP1 as shown. Use the red mark on the IDC to match the pins on both ends. To enable the LCD on Smoothieware just set this line to "true". Use all default pin designations on config file for X5 mini.

*panel.enable*      true      # set to true to enable the panel code

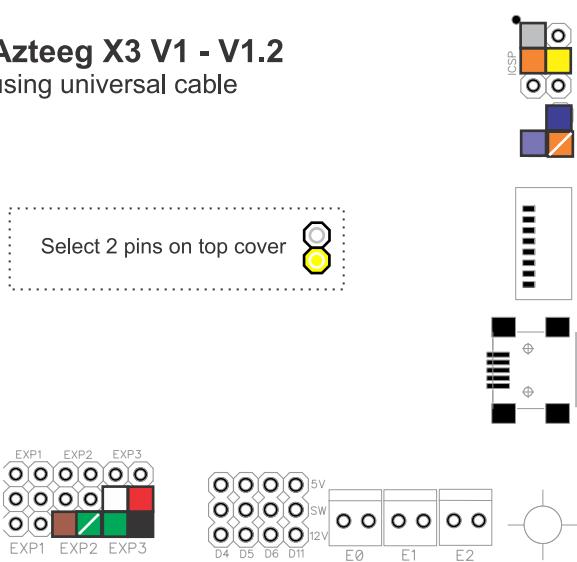
# Azteeg X3 V2.0

using universal cable



<b>Marlin Variable</b>	<b>Pin#</b>	<b>Description</b>
Beeper	33	Buzzer
DOGLCD_A0	31	A0
DOGLCD_CS	32	LCS
BTN_EN1	22	ENCA
BTN_EN2	7	ENCB
BTN_ENC	12	ENCBTN
SDCARDDETECT	-1 (49)	SDCD
SDSS	53	SDCS
STAT_LED_RED	64	RED-LED
STAT_LED_BLUE	63	BLUE-LED

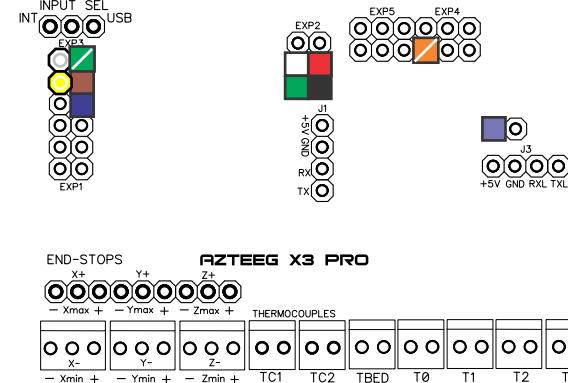
## Azteeg X3 V1 - V1.2 using universal cable



<b>Marlin Variable</b>	<b>Pin#</b>	<b>Description</b>
Beeper	33	Buzzer
DOGLCD_A0	31	A0
DOGLCD_CS	32	LCS
BTN_EN1	22	ENCA
BTN_EN2	7	ENCB
BTN_ENC	12	ENCBTN
SDCARDDETECT	-1 (49)	SDCD
SDSS	53	SDCS
STAT_LED_RED		RED-LED
STAT_LED_BLUE		BLUE-LED

# VIKI 2.0 LCD WIRING DIAGRAM

## Azteeg X3 PRO using universal cable

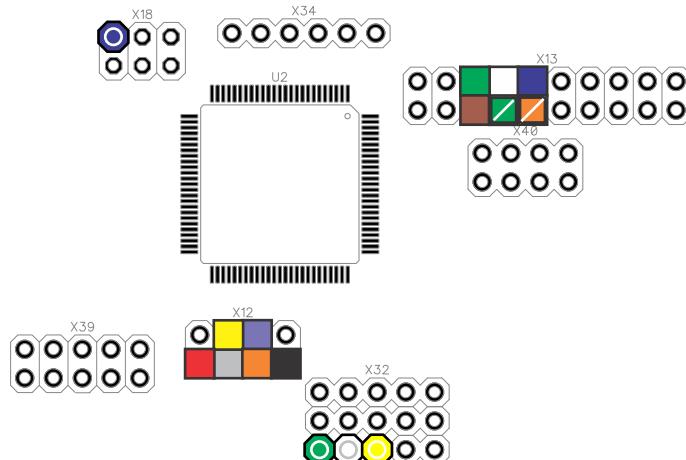


Marlin Variable	Pin#	Description
Beeper	33	Buzzer
DOGLCD_A0	44	A0
DOGLCD_CS	45	LCS
BTN_EN1	22	ENCA
BTN_EN2	7	ENCB
BTN_ENC	39	ENCBTN
SDCARDDETECT	-1 (49)	SDCD
SDSS	53	SDCS
STAT_LED_RED	32	RED-LED
STAT_LED_BLUE	35	BLUE-LED

For X3 PRO v1.0 use another digital pin available for the SDSS pin ( no breakout pin for D53 )

Do not use the other pins on EXP4 and EXP5 if using driver slots E3,E4 and E5.

## RAMBo rev1.3L using universal cable

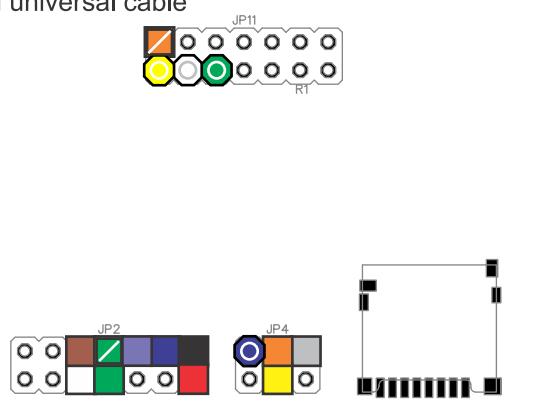


Marlin Variable	Pin#	Description
Beeper	33	Buzzer
DOGLCD_A0	70	A0
DOGLCD_CS	71	LCS
BTN_EN1	85	ENCA
BTN_EN2	84	ENCB
BTN_ENC	83	ENCBTN
SDCARDDETECT	-1 (72)	SDCD
SDSS	53	SDCS
STAT_LED_RED	22	RED-LED
STAT_LED_BLUE	32	BLUE-LED

Not all I/O pins on the RAMbo board will work as an output pin, please keep that in mind when replacing the suggested pins. Wiring configuration as illustrated has been tested on rev 1.3L.

Viki2 requires modifying current Marlin release, modifying PrintrBot supplied firmware will not fit on the Printrboard's memory space.

## PrintrBoard revD/F using universal cable

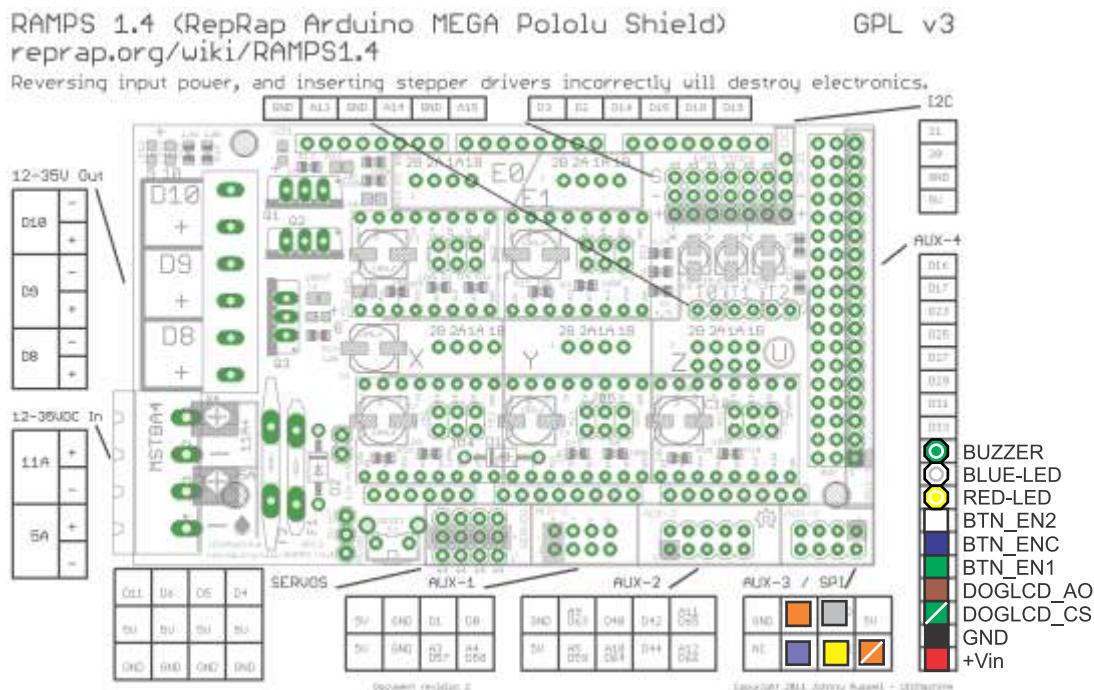


Marlin Variable	Pin#	Description	Type
Beeper	32	Buzzer	FastIO
DOGLCD_A0	42	A0	non-FastIO
DOGLCD_CS	43	LCS	non-FastIO
BTN_EN1	26	ENCA	FastIO
BTN_EN2	27	ENCB	FastIO
BTN_ENC	47	ENCBTN	FastIO
SDCARDDETECT	-1 (72)	SDCD	FastIO
SDSS	45	SDCS	non-FastIO
STAT_LED_RED	12	RED-LED	non-FastIO
STAT_LED_BLUE	10	BLUE-LED	non-FastIO

PrintrBoard uses a mix of non-FastIO and FastIO pins, try using the type as indicated in the table when changing pins.

## RAMPS V1.4

using universal cable



### Firmware guide: use Marlin RC

- Uncomment Viki2 in configuration.h
- ```
#define VIKI2
#ifndef miniVIKI
```
- Uncomment TEMP\_STAT\_LEDS in configuration.h
- ```
#define TEMP_STAT_LEDS
```
- Go to tab pins\_RAMPS\_14.h and replace pin numbers as shown below

```
#elif ENABLED(VIKI2) || ENABLED(miniVIKI)
#define BEEPER_PIN      35

// Pins for DOGM SPI LCD Support
#define DOGLCD_A0      47
#define DOGLCD_CS       32
#define LCD_SCREEN_ROT_180

#define BTN_EN1        45
#define BTN_EN2        41
#define BTN_ENC         43

#define SDSS           53
#define SD_DETECT_PIN  -1 // Pin 49 for display sd

#define KILL_PIN        31

#if ENABLED(TEMP_STAT_LEDS)
#define STAT_LED_RED   39
#define STAT_LED_BLUE  37
#endif
```

Marlin Variable	Pin#	Description
Beeper	35	Buzzer
DOGLCD_A0	47	A0
DOGLCD_CS	32	LCS
BTN_EN1	45	ENCA
BTN_EN2	41	ENCB
BTN_ENC	43	ENCBTN
SDCARDDETECT	-1 (49)	SDCD
SDSS	53	SDCS
STAT_LED_RED	39	RED-LED
STAT_LED_BLUE	37	BLUE-LED