PWM* Pins PA5 & PA15 cannot both be used for PWM simultaneously.
PWM* Pins PA6 & PB4 cannot both be used for PWM simultaneously.

MRX* UART pin for MIDI input. Can receive direct MIDI signals
from another MCU or external MIDI signals via an optocoupler.

MI4*, MI5* DIN MIDI input. Not connected by default. Solder an
SMD octocoupler to the bottom side of the PCB to use these pins.

H2

ANALOG IN · ANALOG IN · PWM* SPI CS · SPILINK · USART RX
DIGITAL I/O · DIGITAL I/O · DIGITAL I/O · DIGITAL I/O · DIGITAL I/O · DIGITAL I/O · SD CDET · 3.3V · GND
PF9 · PF7 · PG12 · PA15 · PD6 · PD4 · SD CMD · SD D3 · SD D1 · USB PROG D+ · VBUS OUT · VBUS END

PF8 · PF6 · PG11 · PG10 · PD5 · PD3 · SD CLK · SD D2 · SD D0 · USB PROG D- · GND · VBUS RAW
DIGITAL I/O · DIGITAL I/O · DIGITAL I/O · DIGITAL I/O · DIGITAL I/O · DIGITAL I/O · USB PROG D-
ANALOG IN · ANALOG IN · USART TX · SPILINK

H3

USB HOST D+ · USB HOST D-
5.0V · 5.0V
GND · GND
MIDI RX (TTL OR EXTERNAL OPTO) MRX* · L2R LED2 RED · DIGITAL I/O · PWM
MIDI IN (SOLDER TO BOTTOM) MI4* · L1G LED1 GREEN · DIGITAL I/O
MIDI IN (SOLDER TO BOTTOM) MI5* · MO4 MIDI OUT
DIGITAL I/O PB12 · GND
PWM DIGITAL I/O PB13 · MO5 MIDI OUT
PWM ANALOG IN DIGITAL I/O PB0 · PA4 DIGITAL I/O ANALOG IN SPI CS DAC 1
PWM ANALOG IN DIGITAL I/O PB1 · PA5 DIGITAL I/O ANALOG IN PWM* SPI SCK DAC 2
ANALOG IN DIGITAL I/O PC4 · PA6 DIGITAL I/O ANALOG IN PWM* SPI MISO
ANALOG IN DIGITAL I/O PC5 · PA7 DIGITAL I/O ANALOG IN PWM SPI MOSI
3.3V · GND

H1

3.3V · 3.3V
GND · GND
5.0V · 5.0V
3.3V · PC7 DIGITAL I/O PWM
SWITCH 1 / BOOT RESCUE S1 · PB3 DIGITAL I/O PWM SPI SCK SPILINK
SWITCH 2 / NO PATCH LOAD S2 · PB4 DIGITAL I/O PWM* SPI MISO SPILINK
PWM USART TX DIGITAL I/O PA9 · PB6 DIGITAL I/O PWM I2C SCL USART TX
PWM ANALOG IN DIGITAL I/O PA0 · PB7 DIGITAL I/O PWM I2C SDA USART RX
PWM ANALOG IN DIGITAL I/O PA1 · PB8 DIGITAL I/O PWM I2C SCL
USART TX PWM ANALOG IN DIGITAL I/O PA2 · PB9 DIGITAL I/O PWM I2C SDA
USART RX PWM ANALOG IN DIGITAL I/O PA3 · PC1 DIGITAL I/O ANALOG IN
3.3V · GND
DIGITAL MIC DATA · DIGITAL MIC CLK

J8

VBUS END
MIDI TX
MIDI RX
5.0V
GND

I2S LRCLK
SPILINK I2S MCLK · I2S BCLK

GNDA
3.3VA

J2

HEADPHONES LEFT CH
HEADPHONES GROUND
HEADPHONES RIGHT CH

J1

LINE IN LEFT CH
LINE IN GROUND
LINE IN RIGHT CH
LINE OUT RIGHT CH
LINE OUT GROUND
LINE OUT LEFT CH

Ksoloti Core 0.5