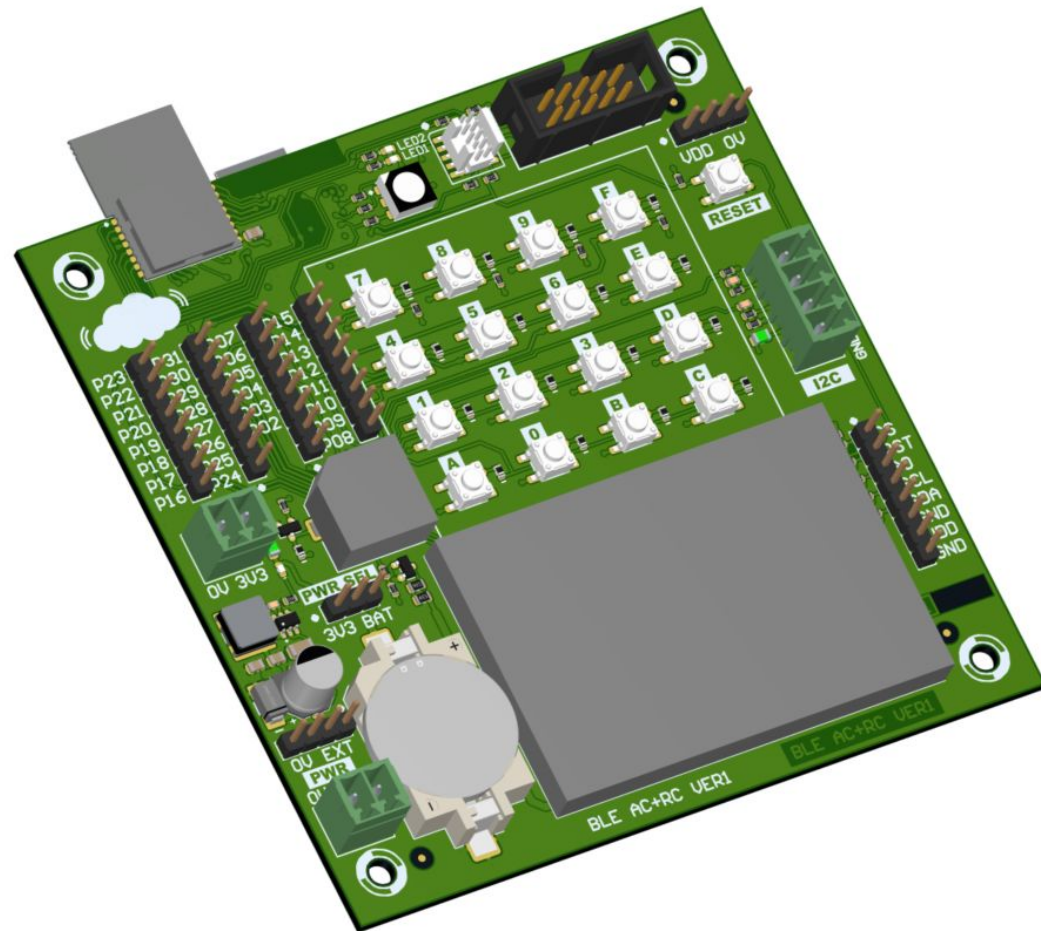


AC+RC Unit (BLE 5.0)

Project: AC+RC Unit
Version: VER1
Revision: REV1
Project State: Released
Variant: BLE_LAIRD
Print date: 2020-01-13

TOP VIEW



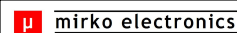
Page	Index
---	-----
01	Cover page
02	Top schematic
03	BLE + KEY + LED
04	LCD + PWR

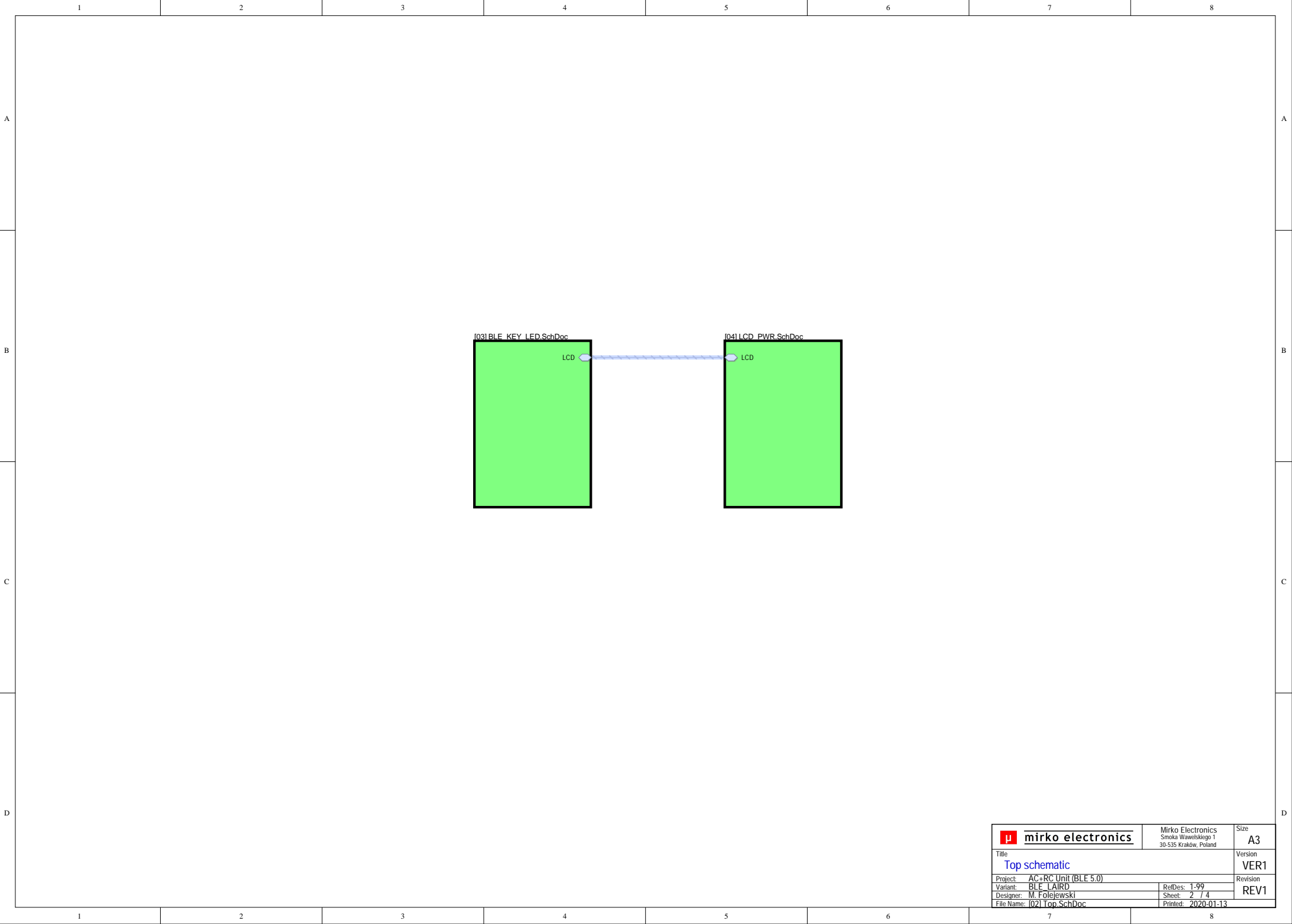
[02] Top_SchDoc

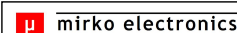
7.1.3 GPIO pins located near the radio

Radio performance parameters, such as sensitivity, may be affected by high frequency digital I/O with large sink/source current close to the radio power supply and antenna pins.

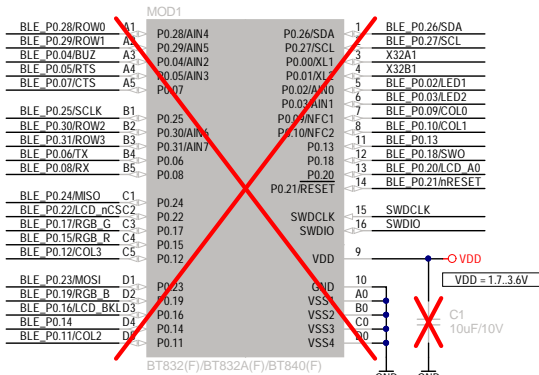
GPIO	QFN48 pin	QFN32 pin	Recommended usage
P0.25	37	26	Low drive, low frequency I/O only.
P0.26	38		
P0.27	39		
P0.28	40	27	
P0.29	41		

		Mirko Electronics Smoka Wawelskiego 1 30-535 Kraków, Poland		Size A3
Title AC+RC Unit (BLE 5.0) Board		Version VER1		Revision REV1
Project AC+RC Unit (BLE 5.0)		RefDes: -		
Variant BLE_LAIRD		Sheet: 1 / 4		
Designer: M. Folejewski		Printed: 2020-01-13		
File Name: [01] Cover_page.SchDoc				

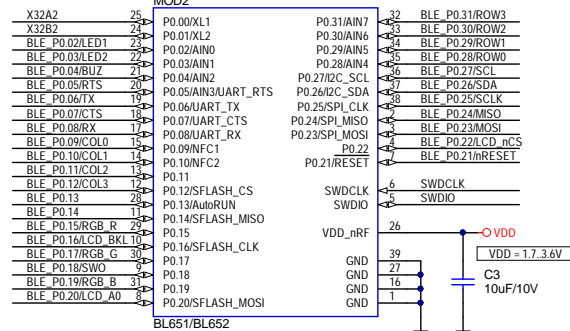


		Mirko Electronics Smoka Wawelskiego 1 30-535 Kraków, Poland		Size A3
Title Top schematic				Version VER1
Project: AC+RC Unit (BLE 5.0)				Revision REV1
Variant: BLE LAIRD		RefDes: 1-99		
Designer: M. Folejewski		Sheet: 2 / 4		
File Name: I02 Top.SchDoc		Printed: 2020-01-13		

BLE (FANSTEL)



BLE (LAIRD)



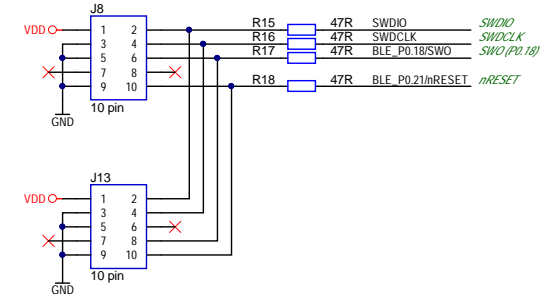
BLE 5.0 module (Fanstel)

BLE 5.0 module (Laird)

OSC (LFXO)

SWD Interface

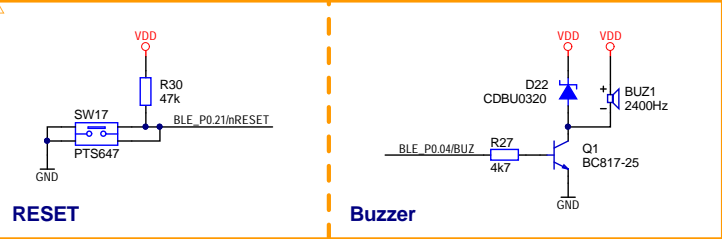
Segger J-LINK



Columns

Rows

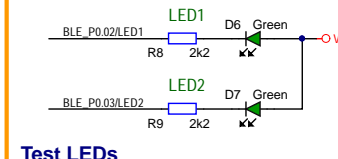
Keypad



RESET

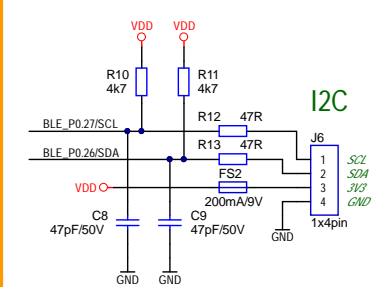
Buzzer

Low power RGB LED

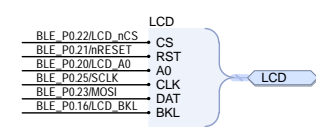
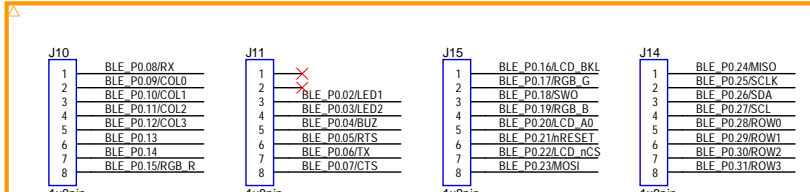



Test LEDs

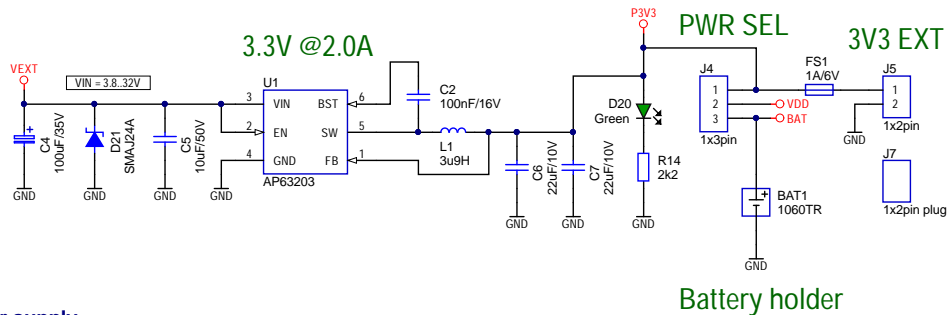
I2C interface



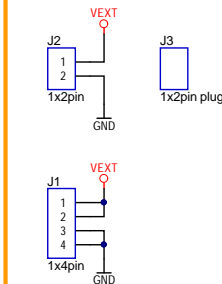
Pin headers



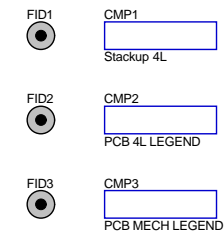
 mirko electronics		Mirko Electronics Smoka Wawelskiego 1 30-535 Krakow, Poland	Size A3
Title BLE module, LEDs, keypad, buzzer		Version VER1	
Project: AC+RC Unit (BLE 5.0)		RefDes: 1-99	Revision REV1
Variant: BLE LAIRD		Sheet: 3 / 4	
Designer: M. Folejewski		Printed: 2020-01-13	
File Name: 03 BLE_KEY_LED.SchDoc			



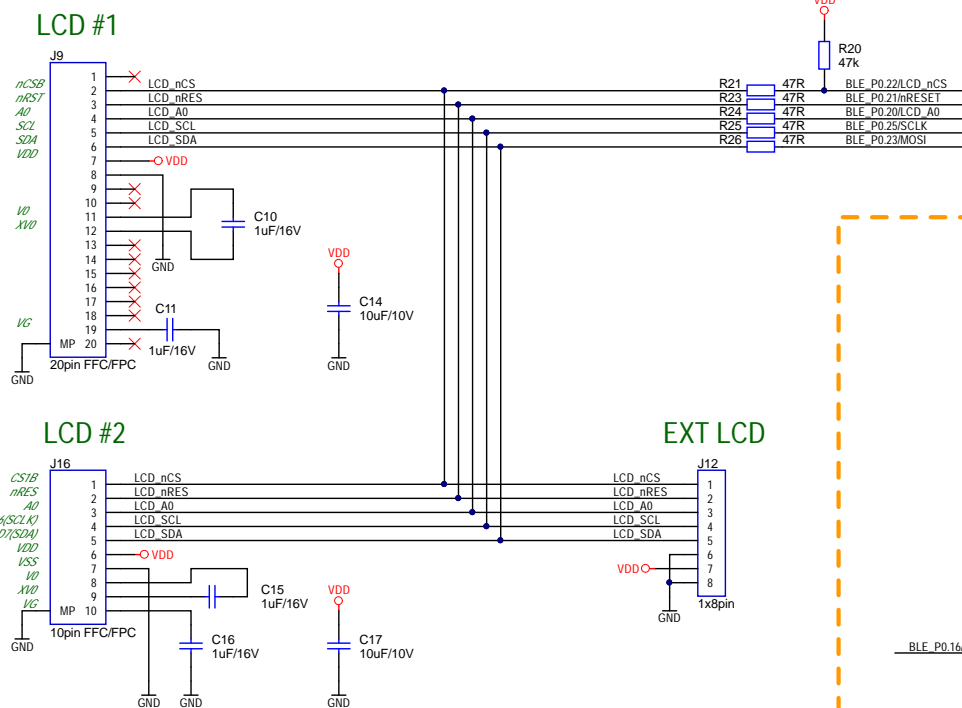
Power supply



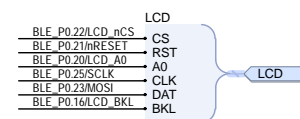
Power connector




PCB marking



LCD display module (128x64)



LCD backlight

 mirko electronics		Mirko Electronics Smoka Wawelskiego 1 30-535 Kraków, Poland	Size A3
Title LCD display, power supply			Version VER1
Project: AC+RC Unit (BLE 5.0)		RefDes: 1-99	Revision REV1
Variant: BLE LAIRD		Sheet: 4 / 4	
Designer: M. Folejewski		Printed: 2020-01-13	
File Name: 041 LCD_PWR.SchDoc			