



Wireless Expansion Board

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Revision History

Rev. Description

A00	Initial version for manufacturing
A01	Updated EFM32HG to rev C, changed to WCON connectors, changed EEPROM

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		Wireless EXP Board	
Designed: MW		Page Title	
Approved: DDB		Title Page	
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EXP_HEADER[16..3]

VMCU 5V 3V3

P1

EXP_HEADER3

EXP_HEADER4

EXP_HEADER5

EXP_HEADER6

EXP_HEADER7

EXP_HEADER8

EXP_HEADER9

EXP_HEADER10

EXP_HEADER11

EXP_HEADER12

EXP_HEADER13

EXP_HEADER14

EXP_HEADER15

EXP_HEADER16

EXP_HEADER17

EXP_HEADER18

EXP_HEADER19

EXP_HEADER20

BOARD_ID_SCL

BOARD_ID_SDA

RECPT_2X10_2.54MM_RA_SMD

GND

Diagram illustrating the pin connections for the P2 header (20 pins) to various components:

- Pin 1: EXP_HEADER3
- Pin 2: VMCU 5V
- Pin 3: EXP_HEADER5
- Pin 4: EXP_HEADER4
- Pin 5: EXP_HEADER7
- Pin 6: EXP_HEADER6
- Pin 7: EXP_HEADER9
- Pin 8: EXP_HEADER8
- Pin 9: EXP_HEADER11
- Pin 10: EXP_HEADER10
- Pin 11: EXP_HEADER13
- Pin 12: EXP_HEADER12
- Pin 13: EXP_HEADER15
- Pin 14: EXP_HEADER14
- Pin 15: EXP_HEADER16
- Pin 16: BOARD_ID_SCL
- Pin 17: BOARD_ID_SDA
- Pin 18: VMCU 3V3
- Pin 19: GND
- Pin 20: NM

[illegible]

The image contains two pin connection diagrams for the P200 and P201 modules. The P200 diagram shows connections for 5V, 3V3, and GND, with pins 1-40 numbered. The P201 diagram shows connections for RADIO_VMCU, RADIO_VRF, and GND, with pins 1-40 numbered. Both diagrams show connections for various radio modules (P36-P45, F0-F18, P1-P35) and their corresponding pins.

P200 Pin Connections:

- Pin 1: 5V
- Pin 2: 3V3
- Pin 3: RADIO_P36
- Pin 4: RADIO_P38
- Pin 5: RADIO_P40
- Pin 6: RADIO_P42
- Pin 7: RADIO_P44
- Pin 8: RADIO_F0
- Pin 9: RADIO_F2
- Pin 10: RADIO_F4
- Pin 11: RADIO_F6
- Pin 12: RADIO_F8
- Pin 13: RADIO_F10
- Pin 14: RADIO_F12
- Pin 15: RADIO_F14
- Pin 16: RADIO_F16
- Pin 17: RADIO_F18
- Pin 18: RADIO_F20
- Pin 19: RADIO_P37
- Pin 20: RADIO_P39
- Pin 21: RADIO_P41
- Pin 22: RADIO_P43
- Pin 23: RADIO_P45
- Pin 24: RADIO_F1
- Pin 25: RADIO_F3
- Pin 26: RADIO_F5
- Pin 27: RADIO_F7
- Pin 28: RADIO_F9
- Pin 29: RADIO_F11
- Pin 30: RADIO_F13
- Pin 31: RADIO_F15
- Pin 32: RADIO_F17
- Pin 33: RADIO_F19
- Pin 34: RADIO_F21
- Pin 35: GND
- Pin 36: GND
- Pin 37: GND
- Pin 38: GND
- Pin 39: GND
- Pin 40: GND

P201 Pin Connections:

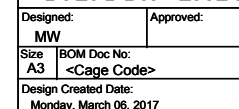
- Pin 1: RADIO_VMCU
- Pin 2: RADIO_P0
- Pin 3: RADIO_P2
- Pin 4: RADIO_P4
- Pin 5: RADIO_P6
- Pin 6: RADIO_P8
- Pin 7: RADIO_P10
- Pin 8: RADIO_P12
- Pin 9: RADIO_P14
- Pin 10: RADIO_P16
- Pin 11: RADIO_P18
- Pin 12: RADIO_P20
- Pin 13: RADIO_P22
- Pin 14: RADIO_P24
- Pin 15: RADIO_P26
- Pin 16: RADIO_P28
- Pin 17: RADIO_P30
- Pin 18: RADIO_P32
- Pin 19: RADIO_P34
- Pin 20: RADIO_P1
- Pin 21: RADIO_P3
- Pin 22: RADIO_P5
- Pin 23: RADIO_P7
- Pin 24: RADIO_P9
- Pin 25: RADIO_P11
- Pin 26: RADIO_P13
- Pin 27: RADIO_P15
- Pin 28: RADIO_P17
- Pin 29: RADIO_P19
- Pin 30: RADIO_P21
- Pin 31: RADIO_P23
- Pin 32: RADIO_P25
- Pin 33: RADIO_P27
- Pin 34: RADIO_P29
- Pin 35: RADIO_P31
- Pin 36: RADIO_P33
- Pin 37: RADIO_P35
- Pin 38: RADIO_VRF
- Pin 39: GND
- Pin 40: GND

Pin configuration diagram for the MINI_SIMPLICITY module. The module is a 10-pin connector labeled P3. The connections are as follows:

- Pin 1: DBG_RESET
- Pin 2: R9 1K, VCOM_TXD
- Pin 3: R8 1K, VCOM_RXD
- Pin 4: RADIO_VMCU
- Pin 5: GND
- Pin 6: DBG_SWO
- Pin 7: DBG_SWCLK
- Pin 8: PTI_FRAME
- Pin 9: PTI_DATA
- Pin 10: GND

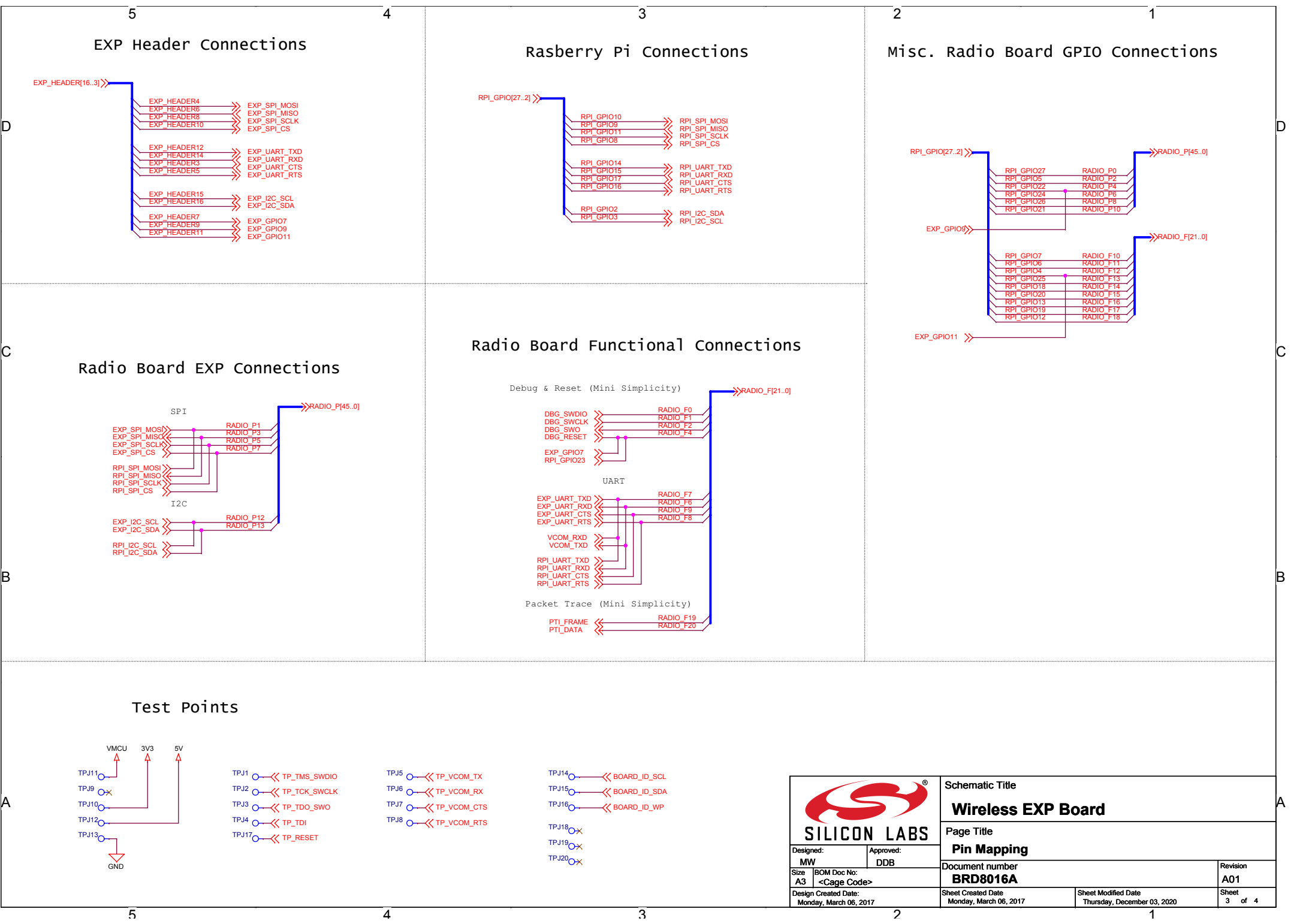
M1 M2 M3 M4

M2.5 M2.5 M2.5 M2.5



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D

C

B

A

D

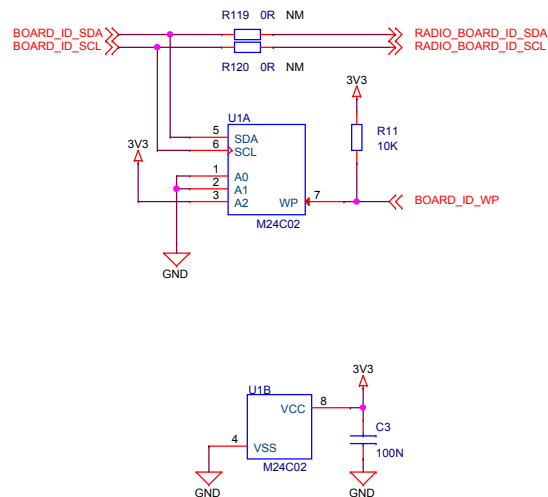
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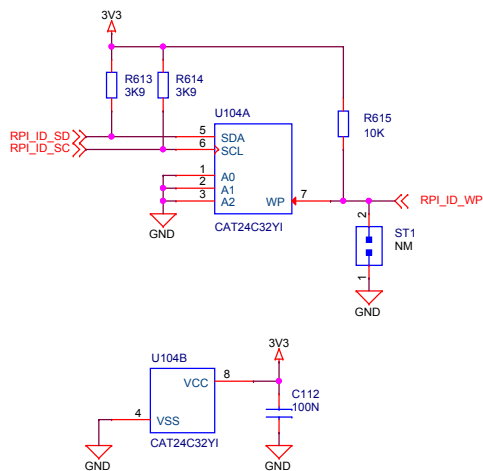
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 SILICON LABS		Schematic Title Wireless EXP Board	
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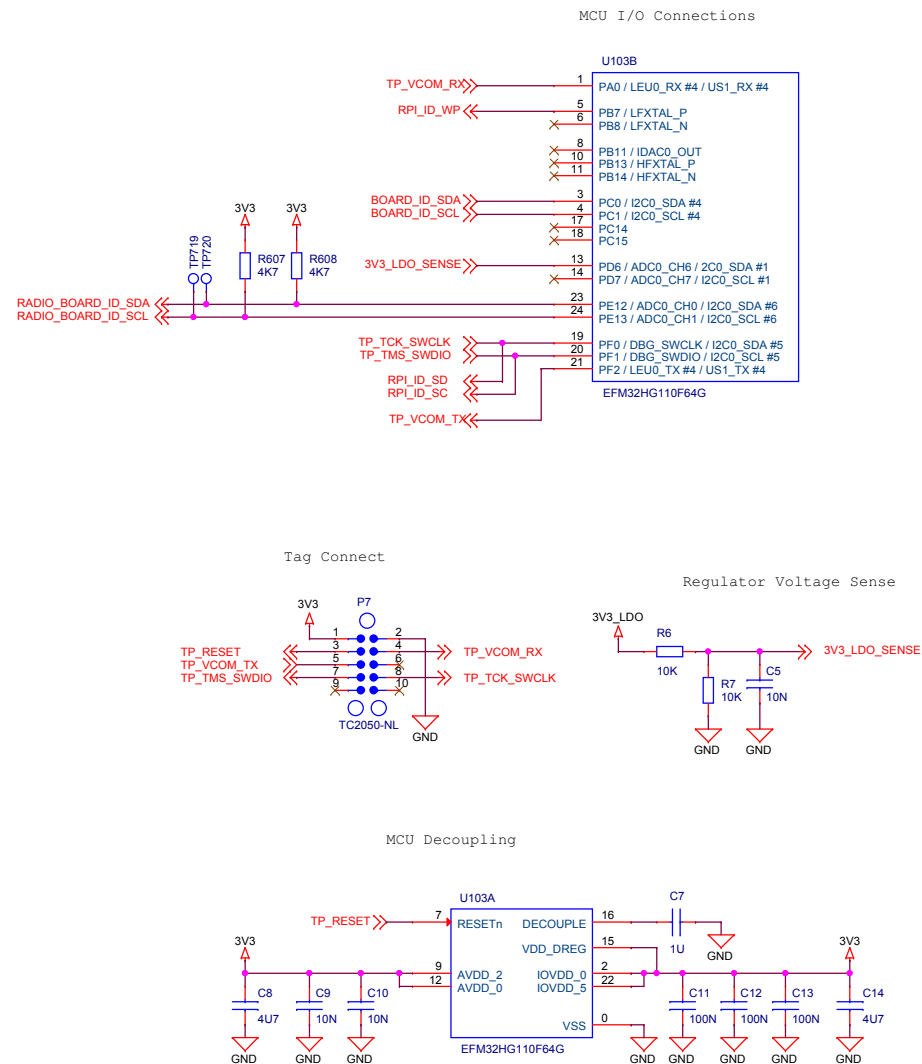
Board ID EEPROM



Raspberry Pi HAT EEPROM



I2C Address Translation & Board Test



		Schematic Title	
		Wireless EXP Board	
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