

Joshua

7.5-18 MHz wide 2.4-2.5 GHz/Baseband Radio Front-End
for the Marmote platform

<http://marmote.googlecode.com>



Pages:

#1 - Cover page
#2 - Connector
#3 - Baseband signals
#4 - RF signals
#5 - Control/Digital signals
#6 - Clock
#7 - Supply

Designed by:

Benjamin Babjak benjamin.babjak@vanderbilt.edu

Reviewed by:

Peter Volgyesi peter.volgyesi@vanderbilt.edu
Sandor Szilvasi sandor.szilvasi@vanderbilt.edu

Cover page

Title: Joshua

Rev: B

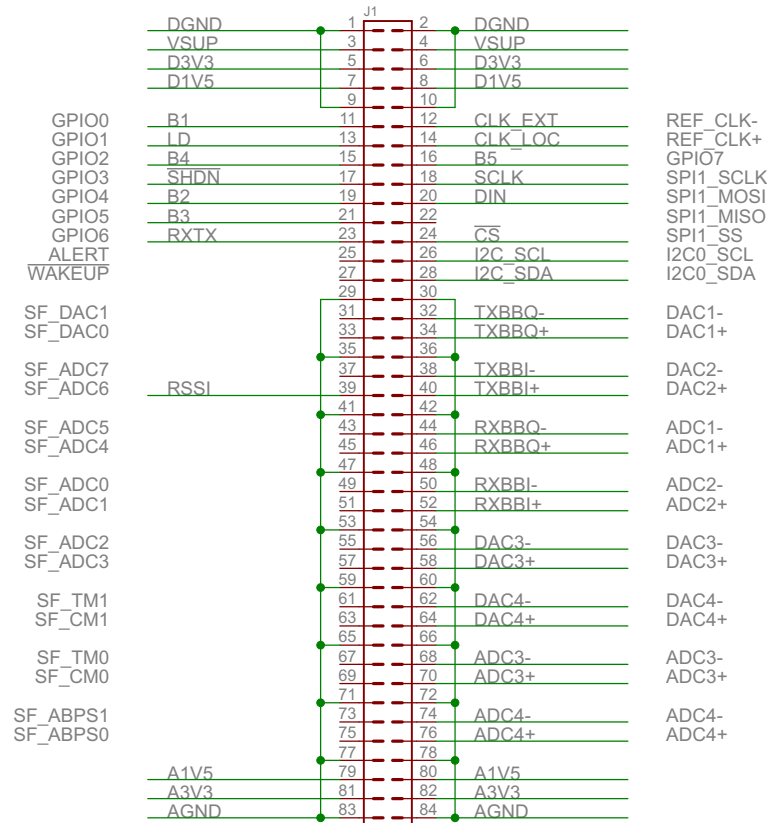
Date: 1/11/2013 10:43:54

Sheet: 1/7

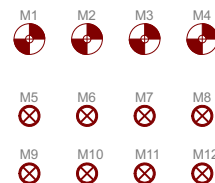
Copyright © 2013 Vanderbilt University, ISIS

RXHP
ANTSEL

B7
B6



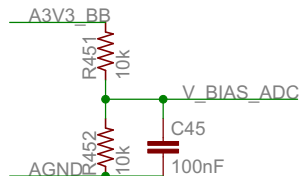
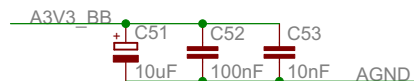
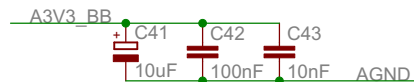
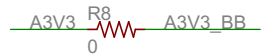
CON-71742-3003-BOT



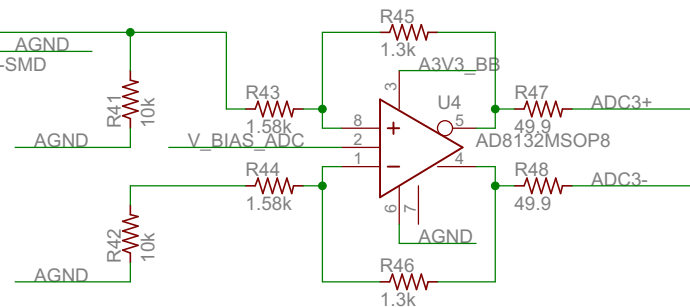
Connector

Title: Joshua	Rev: B
Date: 1/11/2013 10:43:54	Sheet: 2/7
Copyright © 2013 Vanderbilt University, ISIS	

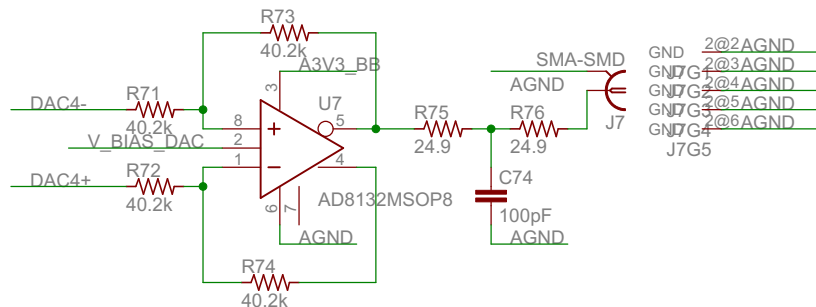
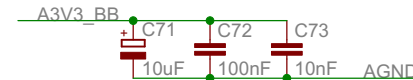
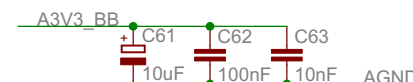
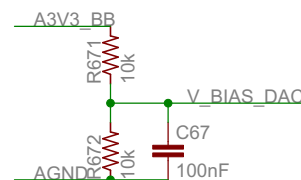
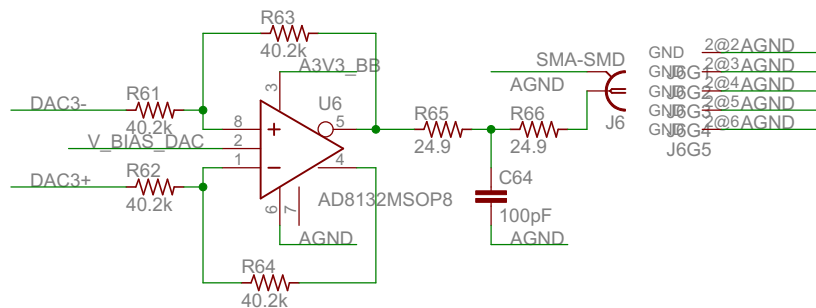
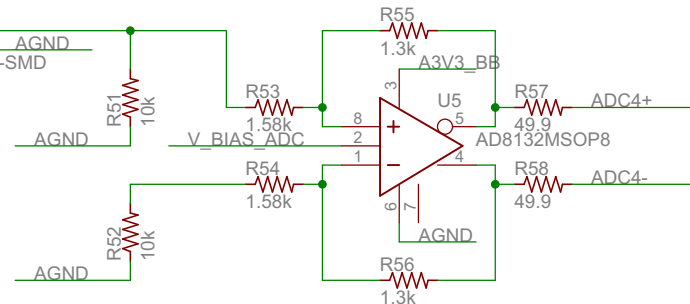
RX



J4G1
AGND 2@24GND
AGND 2@34GND
AGND 2@44GND
AGND 2@54GND
AGND 2@64GND



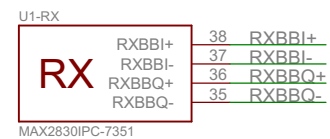
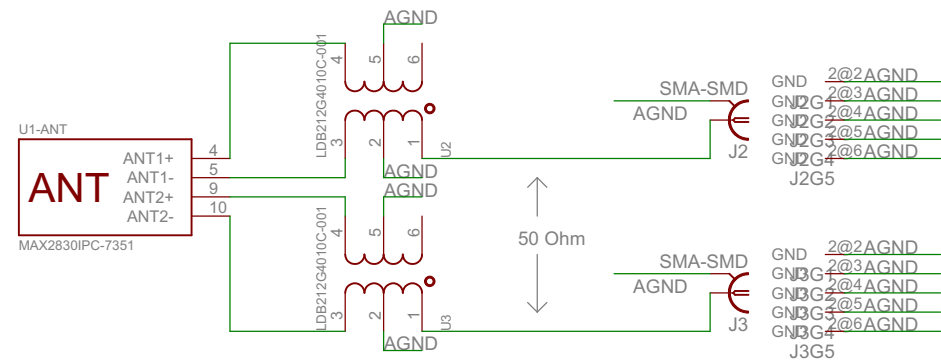
J5G1
AGND 2@45GND
AGND 2@35GND
AGND 2@45GND
AGND 2@55GND
AGND 2@65GND



TX

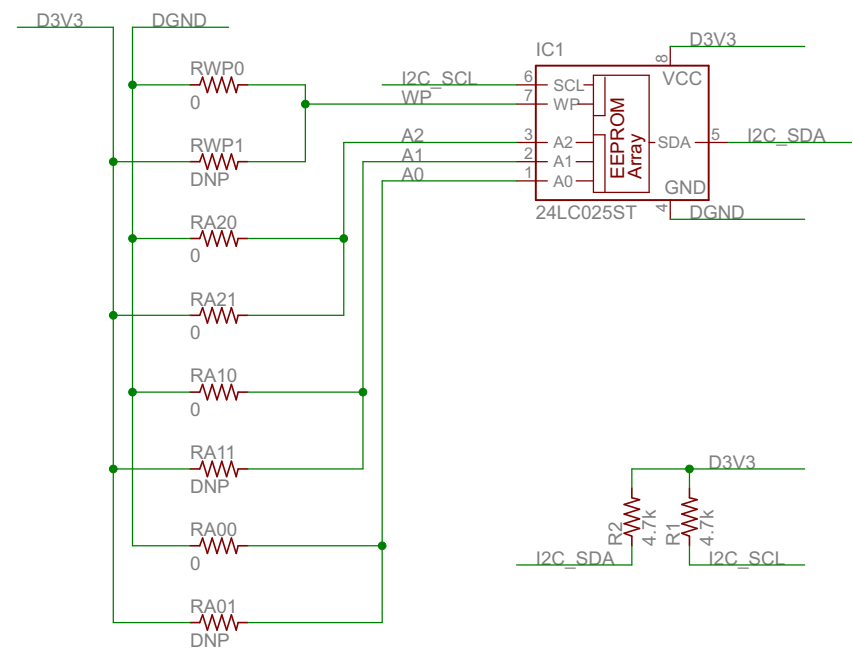
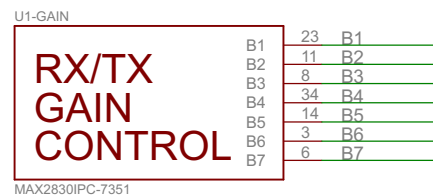
Baseband signals

Title: Joshua	Rev: B
Date: 1/11/2013 10:43:54	Sheet: 3/7
Copyright © 2013 Vanderbilt University, ISIS	

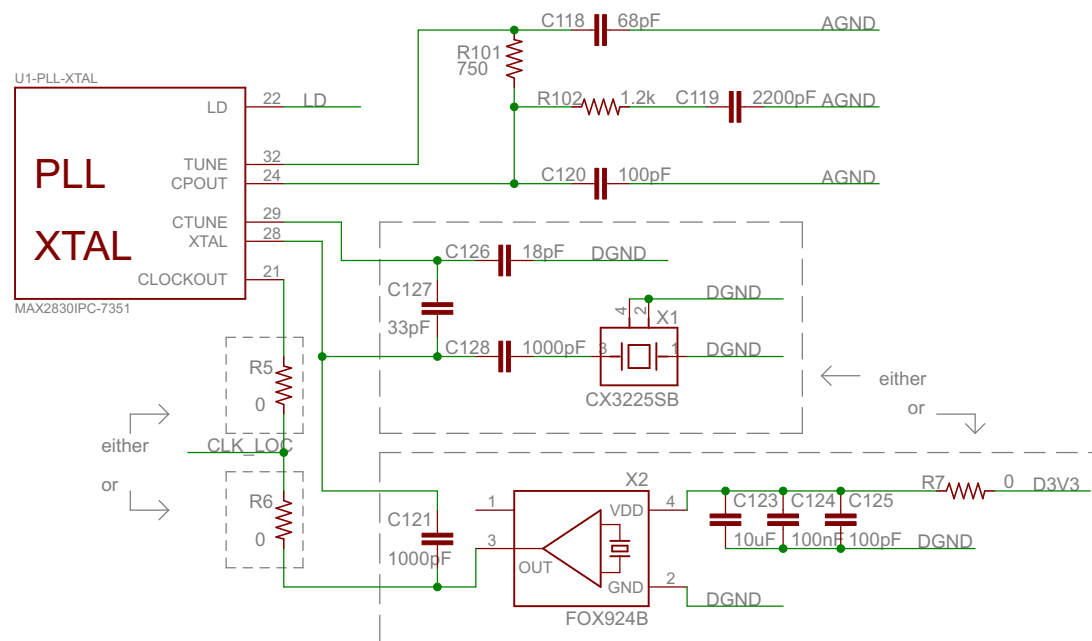


RF signals

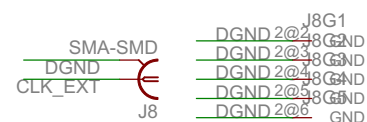
Title: Joshua	Rev: B
Date: 1/11/2013 10:43:54	Sheet: 4/7
Copyright © 2013 Vanderbilt University, ISIS	



Title: Joshua	Rev: B
Date: 1/11/2013 10:43:54	Sheet: 5/7
Copyright © 2013 Vanderbilt University, ISIS	

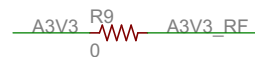
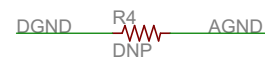
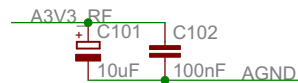
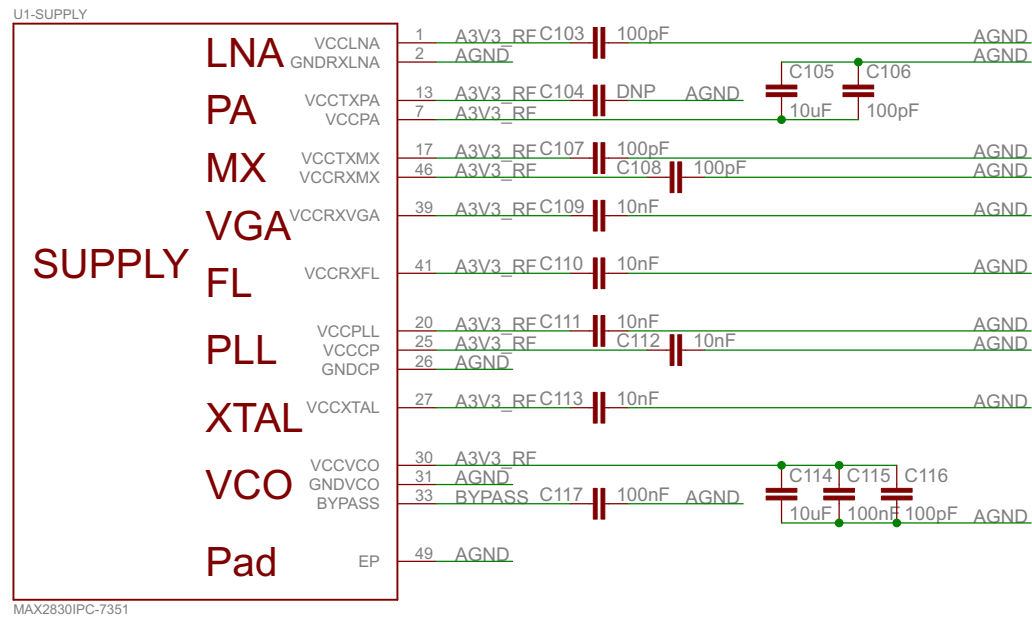


1 ppm external CLK



Clock

Title: Joshua	Rev: B
Date: 1/11/2013 10:43:54	Sheet: 6/7
Copyright © 2013 Vanderbilt University, ISIS	



Supply

Title: Joshua	Rev: B
Date: 1/11/2013 10:43:54	Sheet: 7/7
Copyright © 2013 Vanderbilt University, ISIS	