CONFIDENTIAL AND PROPRIETARY — QUALCOMM ATHEROS, INC
CORFUGINT () 2015 QUALCOMM ATHEROS, INC.
CORFUGINT () 2015 QUALCOMM ATHEROS, INC.
TO TO BE USED, COPTED, REPRODUCED, OR MODIFIED IN WHOLE OR IN PART, NOR
ITS CONTENS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS
RETURN OF THE CONTENS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS
THIS TECHICAL DATA MAY BE SUBject TO U.S. AND INTERNATIONAL EXPORT,
RE-EXPORT OR TRANSFER ("EXPORT") LAWS. DIVERSION CONTRARY TO U.S.
AND INTERNATIONAL LAW IS STRICTLY PROPRHISTED.

QUALCOMM IS A TRADEMARK OF QUALCOMM INCORPORATED, REGISTERED IN THE UNITED STATES AND OTHER COUNTRIES. ALL QUALCOMM INCORPORATED TRADEMARKS ARE USED WITH PERMISSION. OTHER PRODUCT AND BRAND MAMES MAY BE TRADEMARKS OR REGISTERED TRADEMARKS OF THEIR RESPECTIVE OWNERS.

TABLE OF CONTENTS PAGE 01 : Title_And_Rev PAGE 02 : Block_Diagram PAGE 03 : Ruby PAGE 04 : RF

PAGE 05 : Power and Interface

SCHEMATIC, CCA, Ruby QCA4010 1x1 2G SB iPA 2MB SI Flash UART/SPI/GPIO

DIAMETER DATE OLIMACTER DATE OLIMACT

SPI Flash 16M bits MFI chip 40MHz XTAL I2C interface HSUART SPI interface SDIO/SPI/UATR2 I2S I2CM RFOUT2P1 TX/RX Balun IC Matching /Filter ANT QCA4010 PWM x 2 RFIN2N1 9 x 9 DQFN PWM x 4 USB Internal Regulator 3.3V-1.2V 3.3V-1.8V ADC x 4

DC 1.2V

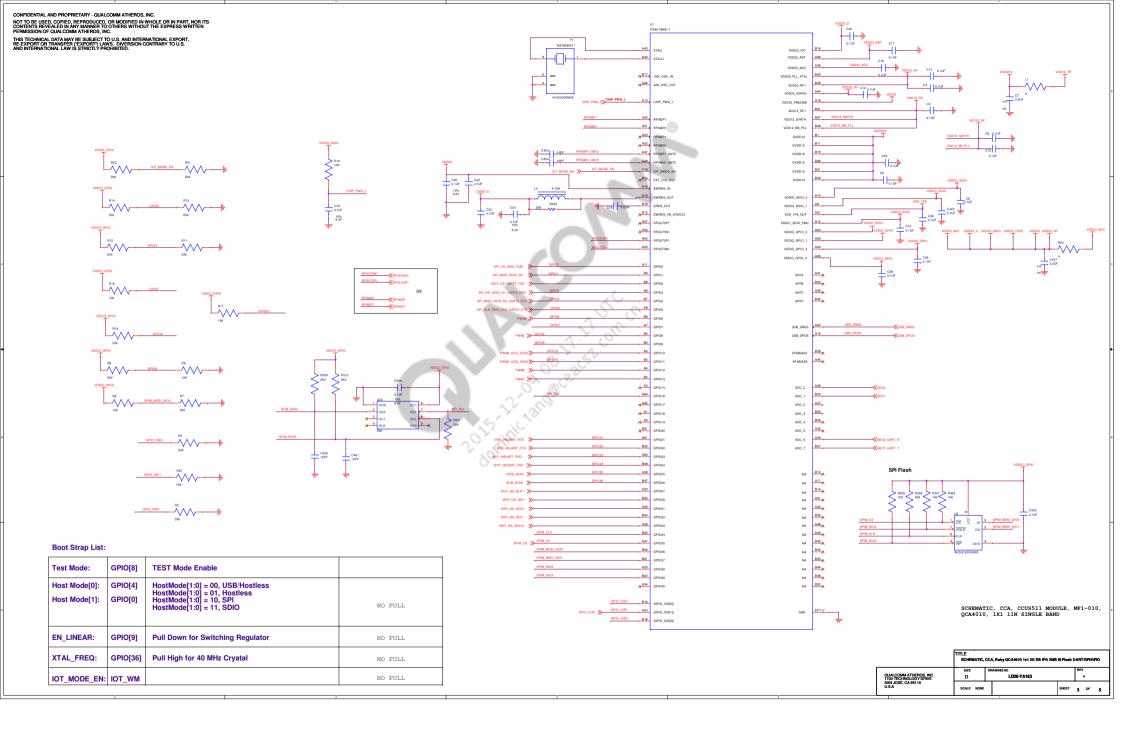
DC 3.3V

Power Input

CONFIDENTIAL AND PROPRIETARY - QUAL COMM ATHEROS, INC.

NOT TO BE USED, COPIED, REPRODUCED, OR MODIFEO IN WHOLE OR IN PART, NOR ITS
CONTENTS REVEALED IN ANY MAINNER TO OTHERS WITHOUT THE EXPRESS WRITTEN
PERMISSION OF QUAL COMM ATHEROS, INC.
THIS TECHNOL DATA MAY BE SUBJECT TO U.S. AND INTERNATIONAL EXPORT,
RE-EXPORT OR TRANSFER ("EXPORT"), JANS, DIVERSION CONTRARY TO U.S.
AND INTERNATIONAL LAW IS STREATLY PROHEIDED.

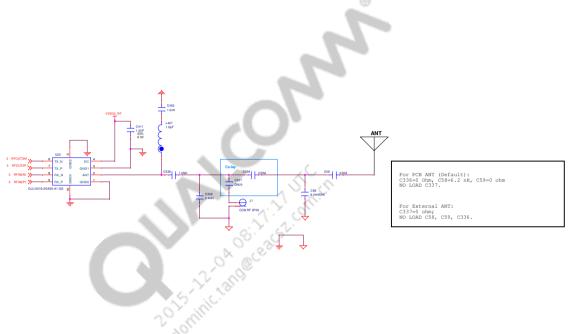
	TITLE SCHEMAT	C, CCA, Ruby QCA4010 1x1 2G SB IP	A 2MB SI Fla:	ih UART/SPIGP
QUALCOMM ATHEROS, INC. 1700 TECHNOLOGY DRIVE SAN JOSE, CA 95110 U.S.A	SIZE	DRAWING NO		REV
	D	LD20-YA163		A .
	SCALE NONE		SHEET	2 OF 5



COMPIDE TIME AND PROPRIETARY—QUALCOMA ATHEROS, INC.

TO ATE LOSE COPPED, REPRODUCED, ON MODIETED INVIVES OR IN PART. NOR ITS CONTENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF QUALCOMA ATHEROS, INC.

THIS TECHNICAL DATA MAY BE SUBJECT TO U.S. AND INTERNATIONAL EXPORT, RE-EXPORT OF THANSEER (PERPOT LIVES). DIVERSION CONTRARY TO U.S. AND INTERNATIONAL LAW IS STRICTLY PROHIBITED.



	TITLE SCHEMATIC, C	CA, Ruby QCA4010 1x1 2G SB IPA 2MB SIF	lash UART/SPIGPIO
	SIZE	DRAWING NO	REV
QUALCOMM ATHEROS, INC. 1700 TECHNOLOGY DRIVE	D	LD20-YA163	Α
SAN JOSE, CA 95110 U.S.A	SCALE NONE	Si	HEET 4 OF 5

SPI CS SDIO CMD >>

CONFIDENTIAL AND PROPRIETARY - QUALCOMM ATHEROS, INC.

NOT TO BE USED, COPIED, REPRODUCED, OR MODIFIED IN WHOLE OR IN PART, NOR ITS
COMMENTS REVEALED IN ANY MANNER TO OTHERS WITHOUT THE EXPRESS WRITTEN
PERMISSION OF QUALCOMM ATHEROS, INC.

THIS TECHNICAL DATA MAY BE SUBJECT TO U.S. AND INTERNATIONAL EXPORT,
RE-EXPORT OR TRANSFER REXPORTY LAWS, DIVERSION CONTRARY TO U.S.
AND INTERNATIONAL LAW IS STREATLY PROHIBITED.

Hostless: RC needed on board for controlling CHIP_PWD_L after 3.3V ramp up for cool boot.

losted:

For the case that CHIP_PWD_L will be controlled by host, there is NO RC loaded that's to eliminate the leakage (3.3V/100K= 3.3uA) on the path from pull-up resistor to host's GPIO (CHIP_PWD_L).

For the case that CHIP_PWD_L not controlled by host, there is RC needed for chip power on after 3.3V ramp up and valid

	TITLE SCHEMATIC, C	CA, Ruby QCA4010 1x1 2G SB IPA 2MB S	I Flash UART/SPI	SPIO .
QUALCOMM ATHEROS, INC. 1700 TECHNOLOGY DRIVE SAN JOSE, CA 95110 U.S.A	SIZE	DRAWING NO	REV	
	D	LD20-YA163	A	
	SCALE NONE		SHEET 5 OF	5