RDA8955 Datasheet

GSM 850/900/1800/1900 Quad-Band **SOC Processor**

Preliminary

Product Specification

Revision 1.0.2



Content

- 1. Product Description
- 2. Package Pin Out
- 3. Electrical Specification
- Table 1. Absolute Rating
- Table 2. Operating Rating
- Table 3. Temperature Characteristics
- Table 4. RF Characteristics
- Table 5. Current Consumption
- Table 6. Digital IO DC Characteristics
- Table 7. Digital IO AC Characteristics (SPI Interface Timing)
- Table 8. DCDC Characteristics
- Table 9. LDOs Characteristics
- 4. Change List

1. Product Description

1.1 Overview

RDA8955 is a high performance, highly integrated system-on-chip solution for low cost, low power, GSM/GPRS application.

Integrating all essential electronic components, including baseband, quad band RF transceiver, power management onto a single system on chip.

Built around a cost effective 32-bit XCPU RISC core running at up to 312MHz with 4k of Instruction cache and 4k of Data cache, RDA8955 offers plenty of processing power for multimedia applications. A high-performance proprietary 16/32-bit digital signal processing engine can further improve overall performance and user experience when performing complex multimedia tasks.

It is also packed with impressive connectivity for easy scalability of the system, allowing glue less interfaces to camera and multimedia companion chips, SDMMC Memory Cards and SPI devices, LCD modules and USB (slave, full speed).

RDA8955 is GPRS Class 12 enabled, and supports Full Rate (FR), Half Rate (HR), Enhanced Full Rate (EFR) voice coders. It also supports simultaneous dual network operation and integrates a SIM controller with integrated level shifters that can support two SIM cards.

It is available in a small footprint, fine pitch, 7.5 X7.0 TFBGA package.

1.2 Features

General

- ➤ Integrated power management unit, base-band, GSM transceiver, and audio module
- > MCU subsystem
- > RDA RISC Core
- 4 kByte Instruction Cache
- 4 kByte Data Cache with write back policy
- > High-performance multi-layer AHB bus

User Interface and Connectivity

- 5-row x 5-column keypad controller with hardware scanner
- Pulse Width Modulator
- > Up to 37 GPIOs with interrupt function

- Calendar (Real Time Clock) with alarm
- USB 1.1 device interface
- Two (2) UART interface
- > Two (2) SPI interface
- > Three (3) I2C interface
- > One (1) SDMMC controller
- > Two (2) GPADC, 10bits

Memory Interface

- Integrated 32Mb 1.8V SPI NOR Flash
- Integrated 32Mb 1.8V DDR PSRAM

GSM/GPRS

- Dual single-ended LNAs support quad band receiver
- Fully integrated channel filter
- High dynamic range ADC
- > Transmitter support quad band
- Programmable fractional-N synthesizer.
- On die wide range VCO and integrated loop filter
- Fast settling time suitable for multi-slot GPRS applications
- Low power mode support 32KHz crystal removal
- ➤ GPRS Class 12
- Support HR/FR/EFR voice codec

Audio

- 2 channels voice ADC, 8kHz, 13 bits/sample for headset and on-board microphone
- ➤ Voice DAC, 8kHz, 13 bits/sample for receiver
- ➤ High fidelity Stereo DAC, up to 48kHz, 16 bits per sample
- > Stereo Audio speaker driver

Power Management

- Li-ion battery charger
- Complete integrated DC-DC and LDOs solution deriving from VBAT
- ➤ Flexible I/O voltage
- ➤ 4 open-drain output switches to supply/control the LED
- LDO type vibrator
- Internal 32KHz OSC

Debug

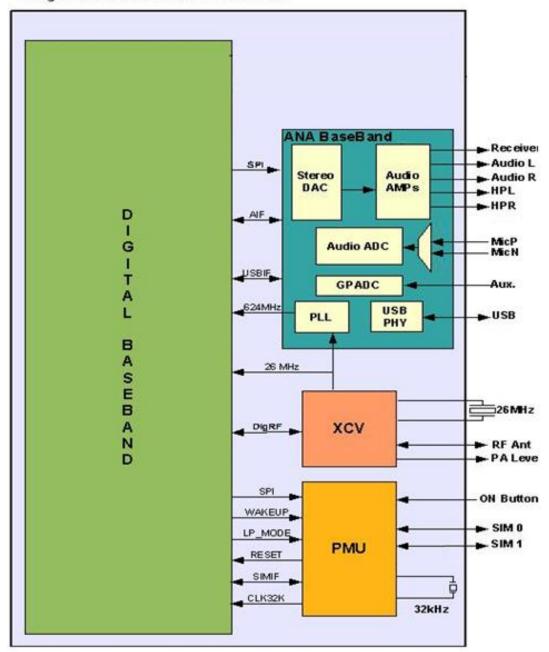
- ➤ Host debug interface allowing non-intrusive in depth investigation
- GDB debugger
- Execution logger and profiling through debug port
- > High level text based debugging using Host debug or USB

Package

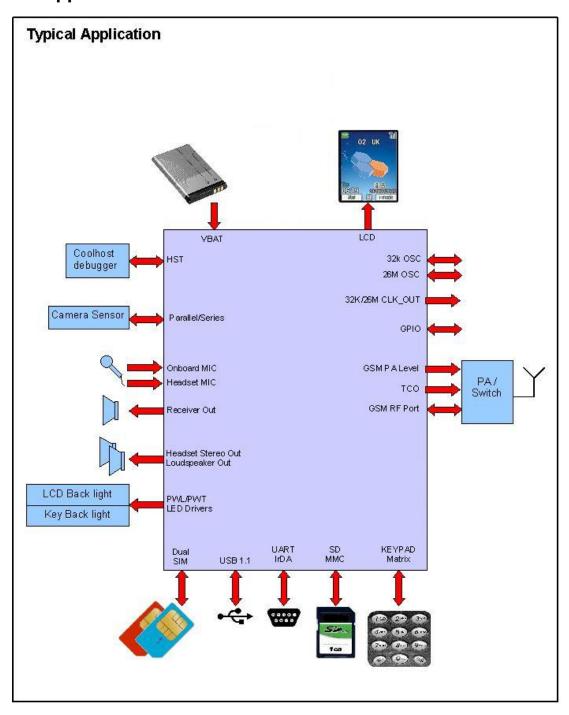
- 7.5mm x 7mm, TFBGA package
- > 0,5mm pitch

1.3 Functional Block Diagram

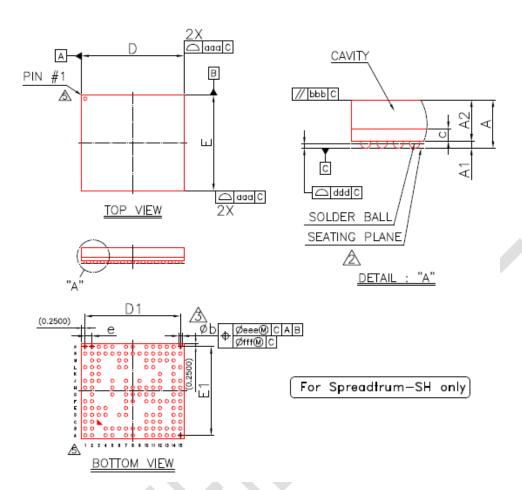
Integrated IPs Architecture & Interfaces



1.4 Application



1.5 Package Outline



Symbol	Dimer	nsion ir	n mm	Dimer	nsion in	inch	
Symbol	MIN	NOM	MAX	MIN	NOM	MAX	
Α	1.0690	1.1400	1.2110	0.0421	0.0449	0.0477	
A1	0.1300	0.1800	0.2300	0.0051	0.0071	0.0091	
A2	0.9100	0.9600	1.0100	0.0358	0.0378	0.0398	
С	0.2200	0.2600	0.3000	0.0087	0.0102	0.0118	
D	7.4000	7.5000	7.6000	0.2913	0.2953	0.2992	
E	6.9000	7.0000	7.1000	0.2717	0.2756	0.2795	
D1		7.0000			0.2756		
E1		6.5000			0.2559		
е		0.5000			0.0197		
b	0.2000	0.2500	0.3000	0.0079	0.0098	0.0118	
aaa		0.1500			0.0059		
bbb		0.2000			0.0079		
ddd		0.0800			0.0031		
eee		0.1500					
fff		0.0500		0.0020			
MD/ME			15 ,	/ 14			

NOTE:

- 1. CONTROLLING DIMENSION: MILLIMETER.
- PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.
- △ DIMENSION 6 IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C.
- 4. SPECIAL CHARACTERISTICS C CLASS: bbb, ddd
- A THE PATTERN OF PIN 1 FIDUCIAL IS FOR REFERENCE ONLY.
- 6. REFERENCE DOCUMENT : JEDEC PUBLICATION 95 DESIGN GUIDE 4.5

2. Package Pin Out

2.1 Pin Map

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
А	SW_GND	SW_BUCK		VBAT_PMU	VBAT_PMU		AU_LSL_N	AU_LSL_P		POWERKE Y	V_MMC	V_CAM	GP10_23	GPIO_22	GPIO_19	А
В	SW_GND	SW_BUCK		VBAT_PMU	VBAT_PMU	V_MEM	V_SPIMEM	GPADC_IN_ 0	GPADC_IN_ 1	SSD_CLK	SSD_CMD	GP10_24	GPIO_21	GPIO_20	AVDD_2V4	В
С	V_ASW	PROG_EFU SE								SDAT_0	SDAT_2	RESETB_TE ST		XVR_BS2	XVR_BS1	с
D	LED1	LED2	AC_R	GDRV		SPK_GND	SPK_GND			SDAT_1	SDAT_8	ANA_TEST_ EN		XVR_BS0	PAON	D
E	V_RTC	V_BAT_RTC	VBAT_SEN SE	IS_CHG			V_CORE					TST_H		RAMPOUT	RF_OUT_H	E
F	KP_LED_B	KP_LED_R					V_CORE	CORE_GND		CORE_GND	CORE_GND	XVR_GND	XVR_GND	XVR_GND	RF_OUT_L	F
G		KP_LED_G			V_VIB		PMU_GND	CORE_GND	CORE_GND	CORE_GND	CORE_GND			XVR_GND	RF_IN_L	G
н	V_LCD	V_USB			GPIO_15		PMU_GND	CORE_GND	CORE_GND	CORE_GND	CORE_GND	QИ		XVR_GND	RF_IN_H	н
J	GPIO_14	GPIO_17	GPIO_18		GPIO_16		IO_GND		CORE_GND		CORE_GND	QP		IP	XVR_GND	J
к		GP10_27	GP10_25									IN		GPIO_0		к
L	GPIO_29	GPIO_26	GP10_28			GPIO_33	GPIO_34			SIM_DIO_1	BBPLL_TES T			GPIO_1	GPIO_2	L
М		FM_GND	GP10_30			GPIO_32	GPIO_31			SIM_CLK_0	SIM_CLK_1	GPIO_4	AUXCLK_O UT	GPIO_3		М
N	FM_RFIP	FM_RFIN	AU_MIC_P	AU_AUXMI C_P	AU_GND	V_MIC	AU_RCV_N	USB_DM	SIM_DIO_0	SIM_RST_0	SIM_RST_1	HST_TXD	GPIO_5	GPIO_7	XVR_XTAL1	N
Р	V_ANA	AU_MIC_N	AU_AUXMI C_N	AU_HPL	AU_HPR		AU_RCV_P	USB_DP		V_SIM_0	V_SIM_1	HST_RXD	GPIO_6	V_PAD	XVR_XTAL2	Р
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

2.2 Pin Definition and Function

PIN NO.	PIN Name	Power Domain	Туре	Description
K14	GPIO_0	V_PAD	I/O	General purpose input /output
L14	GPIO_1	V_PAD	I/O	General purpose input /output
L15	GPIO_2	V_PAD	I/O	General purpose input /output
M14	GPIO_3	V_PAD	I/O	General purpose input /output
M12	GPIO_4	V_PAD	I/O	General purpose input /output
N13	GPIO_5	V_PAD	I/O	General purpose input /output
P13	GPIO_6	V_PAD	I/O	General purpose input /output
N14	GPIO_7	V_PAD	I/O	General purpose input /output
K3	GPIO_25	V_PAD	I/O	General purpose input /output
L2	GPIO_26	V_PAD	I/O	General purpose input /output
K3	GPIO_27	V_PAD	I/O	General purpose input /output
L3	GPIO_28	V_PAD	I/O	General purpose input /output
L1	GPIO_29	V_PAD	I/O	General purpose input /output
M3	GPIO_30	V_PAD	I/O	General purpose input /output
M7	GPIO_31	V_PAD	I/O	General purpose input /output
M6	GPIO_32	V_PAD	I/O	General purpose input /output
L6	GPIO_33	V_PAD	I/O	General purpose input /output
L7	GPIO_34	V_PAD	I/O	General purpose input /output

PIN NO.	PIN Name	Power Domain	Туре	Description
B10	SSD_CLK	V_MMC	I/O	SD serial clock
B11	SSD_CMD	V_MMC	I/O	SD command output
C10	SDAT_0	V_MMC	I/O	SD serial data IO
D10	SDAT_1	V_MMC	I/O	SD serial data IO
C11	SDAT_2	V_MMC	I/O	SD serial data IO
D11	SDAT_3	V_MMC	I/O	SD serial data IO
J1	GPIO_14	V_LCD	I/O	General purpose input /output
H5	GPIO_15	V_LCD	I/O	General purpose input /output
J5	GPIO_16	V_LCD	I/O	General purpose input /output
J2	GPIO_17	V_LCD	I/O	General purpose input /output
J3	GPIO_18	V_LCD	I/O	General purpose input /output
A15	GPIO_19	V_CAM	I/O	General purpose input /output
B14	GPIO_20	V_CAM	I/O	General purpose input /output
B13	GPIO_21	V_CAM	I/O	General purpose input /output
A14	GPIO_22	V_CAM	I/O	General purpose input /output
A13	GPIO_23	V_CAM	I/O	General purpose input /output
B12	GPIO_24	V_CAM	I/O	General purpose input /output
P12	HOST_RXD	V_PAD	I	Debug port
N12	HOST_TXD	V_PAD	I/O	Debug port
N8	USB_DM	V_USB	I/O	D- data input/output
P8	USB_DP	V_USB	I/O	D+ data input/output
C12	RESETB_TEST	V_PAD	I	Inner test pin
E12	TST_H	V_PAD	I	Inner test pin
D12	ANA_TSET_EN	V_PAD	I	Inner test pin

PIN NO.	PIN Name	Power Domain	Туре	Description
J12	QP		I/O	Inner test pin
H12	QN		I/O	Inner test pin
K12	IN		I/O	Inner test pin
J14	IP		I/O	Inner test pin
N1	FM_RFIP		I	FM input from antenna+
N2	FM_RFIN		I	FM input from antenna-
N3	AU_MIC_P		I	MIC input +
P2	AU_MIC_N		I	MIC input -
N4	AU_AUXMIC_P		I	AUX MIC input +
P3	AU_AUXMIC_N		I	AUX MIC input -
P4	AU_HPL		0	Audio head phone output (L channel)
P5	AU_HPR		0	Audio head phone output (R channel)
P7	AU_RCV_P		0	Audio receiver output +
N7	AU_RCV_N		0	Audio receiver output -
A8	AU_LSL_P		0	Audio speaker output +
A7	AU_LSL_N		0	Audio speaker output -
L11	BBPLL_TEST		0	Inner test pin
P11	V_SIM_1		0	LDO output for SIM1
N11	SIM1_RST_1		0	SIM1 card reset output
M11	SIM1_CLK_1		0	SIM1 card clock output
L10	SIM1_DIO_1		I/O	SIM1 data input/outputs
P10	V_SIM_0		0	LDO output for SIM0
N10	SIM0_RST_0		0	SIM0 card reset output
M10	SIM0_CLK_0		0	SIM0 card clock output
N9	SIM0_DIO_0		I/O	SIMO data input/outputs

PIN NO.	PIN Name	Power Domain	Туре	Description
B8	GP_ADC_IN_0		I	AUX ADC input 0
B9	GP_ADC_IN_1		I	AUX ADC input 1
D1	LED1		0	LED driver
D2	LED2		0	LED driver
G2	KP_LED_G		0	LED driver
F1	KP_LED_B		0	LED driver
F2	KP_LED_R		0	LED driver
A2,B2	SW_BUCK		0	DCDC output
C1	V_ASW		0	LDO output for ASW
C2	PROG_EFUSE		I	Inner test pin
D3	AC_R		I	Connecting to the Source(S) of the charger device
D4	GDRV		0	Connecting to the gate(G) of the charger device
E1	V_RTC		0	LDO output for RTC
E2	V_BAT_RTC		0	LDO output for BAT RTC
E3	VBAT_SENSE		I	VBAT sensing
A4,A5,B4,B5	VBAT_PMU		I	VBAT/Power input
E4	IS_CHG		I	Connecting to the cathode(K) of the charger device
E7,F7	V_CORE		I	Power input for digital circuit, from DCDC output
P1	V_ANA		0	LDO output for ANA
B7	V_SPIMEM		0	LDO output for nor flash
B6	V_MEM		0	LDO output for pSRAM
A12	V_CAM		0	LDO output for CAM
H1	V_LCD		0	LDO output for LCD
A11	V_MMC		0	LDO output for MMC
G5	V_VIB		0	LDO output for VIB
H2	V_USB		0	LDO output for inner USB circuit
N6	V_MIC		0	LDO output for MIC

PIN NO.	PIN Name	Power Domain	Туре	Description
A10	POWKEY		I	Power key
P14	V_PAD		0	LDO output for PAD
E14	RAMPOUT		0	Ramping output
F15	RF_OUT_L		0	GSM RF output low band
E15	RF_OUT_H		0	GSM RF output high band
G15	RF_IN_L		I	GSM RF input low band
H15	RF_IN_H		I	GSM RF input high band
D15	PAON		0	RF hard-wire control bus bit
C14	XVR_BS2		0	RF hard-wire control bus bit
C15	XVR_BS1		0	RF hard-wire control bus bit
D14	XVR_BS0		0	RF hard-wire control bus bit
M13	AUXCLK_OUT		0	AUX 26MHz clock output
N15	XVR_XTAL1		I/O	Input 1 for DCXO crystal
P15	XVR_XTAL2		I/O	Input 2 for DCXO crystal
B15	AVDD_2V4		0	LDO output for GSM Transceiver
F8,F10,F11,G8,G9,G10,G11,				
H8,H9,H10,H11,J9,J11	CORE_GND			Connect to GND net
J7	IO_GND			Connect to GND net
H7,G7	PMU_GND			Connect to GND net
A1,B1	SW_GND			Connect to GND net
N5	AU_GND			Connect to GND net
D6,D7	SPK_GND			Connect to GND net
M2	FM_GND			Connect to GND net
F12,F13,F14,G14,H14,J14	XVR_GND			Connect to GND net

3. Electrical Specification

Table 1. Absolute Rating

Symbol	Description	MIN	ТҮР	MAX	Unit
VBAT	Power supply input			5	V
DC Charger	For charger circuit			7	V

Table 2. Operating Rating

Symbol	Description	Min	Тур	Max	Unit
VBAT	Power supply Input	3.4	3.8	4.2	V

Table 3. Temperature Characteristics

Parameter	Min	Тур	Max	Unit	
Work Temperature	-20	25	70	°C	
Storage Temperature	-40	/	125	°C	

Table 4. RF Characteristics

(Vbatt = 3.8 V, $T_A = 27 \, ^{\circ}\text{C}$)

TX

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
fout	RF output frequency	GSM850 band	824		849	MHz
		GSM900 band	880		915	MHz
		DCS1800 band	1710		1785	MHz

RDA MICROELECTRONICS CO., LTD. RDA8955 GSM/GPRS SOC

		PCS1900 band	1850		1910	MHz
		GSM850 band		6		dBm
Dovit	TV Output Dawer	GSM900 band		6		dBm
Pout	TX Output Power	DCS1800 band		5		dBm
		PCS1900 band		5		dBm
		GSM850 band			3	Degree
DE mo	RMS Phase Error	GSM900 band			3	Degree
PE_rms		DCS1800 band			4	Degree
		PCS1900 band			4	Degree
		GSM850 band			10	Degree
DE nook	D . D . E	GSM900 band			10	Degree
PE_peak	Peak Phase Error	DCS1800 band			12	Degree
		PCS1900 band			12	Degree
	Output spectrum(200kHz)			-32		dBc
MASK	Output spectrum(400kHz)			-62		dBc
	Output spectrum(1.8MHz)			-65		dBc

RX

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
for		GSM850 band	869		894	MHz
	DE input fraguancy	GSM900 band	925		960	MHz
f _{IN}	RF input frequency	DCS1800 band	1805		1880	MHz
		PCS1900 band	1930		1990	MHz
		GSM850 band		-109	-104	dBm
Srx	RX sensitivity	GSM900 band		-109	-104	dBm
	TXX Serisitivity	DCS1800 band		-108	-104	dBm
		PCS1900 band		-108	-104	dBm
		GSM850 band	-9			dBc
ACS200	±200k Block	GSM900 band	-9			dBc
AC3200	±200K DIOCK	DCS1800 band	-9			dBc
		PCS1900 band	-9			dBc
ACS400		GSM850 band	-41			dBc
	±400k Block	GSM900 band	-41			dBc
	±400K DIOCK	DCS1800 band	-41			dBc
		PCS1900 band	-41			dBc

Table 5. Current Consumption

(Vbatt = $3.8 \text{ V}, T_A = 27 \text{ °C}$)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
I_idle_avg	average idle current	UART all on		9	10	mA
I_sleep_avg	average sleep current	UART all off		1.5	2	mA

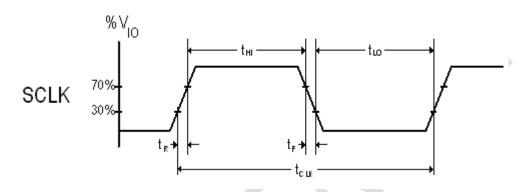
Table 6. Digital IO DC Characteristics

Symbol	Description	Min.(V)	Typical(V)	Max.(V)
VDD	All of power for digital usage	VDD-0.2	1.8/2.8	VDD+0.2
VIL	CMOS Low Level Input Voltage	0	-	0.3*VDD
VIH	CMOS High Level Input Voltage	0.7*VDD	-	VDD
VTH	CMOS Threshold Voltage	-	0.5*VDD	-

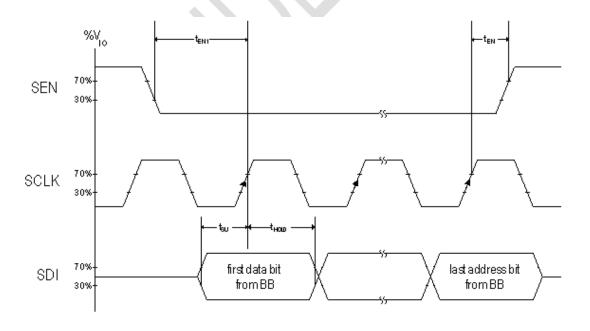
Table 7. Digital IO AC Characteristics (SPI Interface Timing)

Symbol	Description	Min.	Тур.	Max.	Unit
tclk	SCLK Cycle Time	35	-	-	ns
t _R	SCLK Rise Time	-	-	50	ns
t _F	SCLK Fall Time	-	-	50	ns
tнı	SCLK High Time	10	-	-	ns
tLO	SCLK Low Time	10	-	-	ns
tsu	SDI Setup Time to SCLK↑	15	-	-	ns
thold	SDI Hold Time to SCLK↑	10	-	-	ns
t _{EN1}	SEN↓ to SCLK↑ Delay Time	10	-	-	ns

Symbol	Description	Min.	Тур.	Max.	Unit
t _{EN2}	SCLK↑ to SEN↑ Delay Time	12	-	-	ns
t _{EN3}	SEN↑ to SCLK↑ Delay Time	12	-	-	ns
t _W	SEN Pulse Width	10	-	-	ns
tca	SCLK↑ to SDO Delay Time	-	-	27	ns
Cload	Digital Input Pin Capacitance	-	-	5	pF
f _{REF}	Crystal Reference Frequency	-	26	-	MHz



SCLK Timing Diagram



SPI Write Timing Diagram

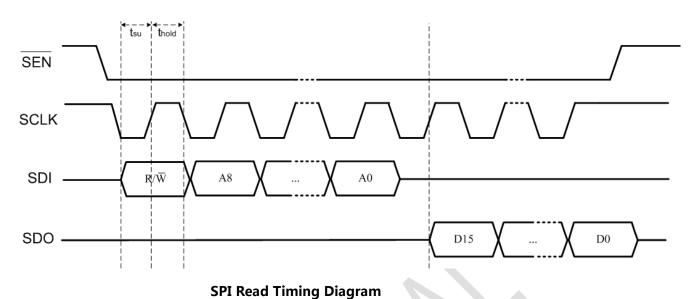


Table 8. DCDC Characteristics

The brief specifications of the DCDC

Parameters	Conditions	Min	Typical	Max	Unit
Output Voltage	VBAT=4.2V	0.75	1.2	1.48	V
	Active mode				
	VBAT=4.2V	0.91	1.427	1.75	V
	LP mode				

Table 9. LDOs Characteristics

Low Drop-out Linear Regulators(LDO)

All LDOs have their own power down logic. Their main specifications are blow.

	1 5				
Parameter	Condition	Min	Typical	Max	Unit
V_A24					
Status after reset	On				
Output Voltage	Va24_vsel=1	1.88	2.05	2.45	V
	Va24_vsel=0	2.13	2.35	2.91	V
Output Current	Va24_vsel=1			500	mA
capacity	Va24_vsel=0			500	mA
V_PAD					
Status after reset	On				
Output Voltage	Vio_vsel=1	1.74	1.81	1.88	V
	Vio_vsel=0	2.78	1.81	2.98	V
Output Current	Vio_vsel=1	110			mA

capacity	Vio_vsel=0	140			mA
V_ANA					
Status after reset	On				
Output Voltage		2.25	2.48	2.75	V
Output Current	VBAT=4.2v			250	mA
capacity					
V_SPIMEM					
Status after reset	On				
Output Voltage		1.71	1.82	1.93	V
Output Current	VBAT=4.2v			240	mA
capacity					
V_MEM					
Status after reset	On				
Output Voltage		1.72	1.82	1.94	V
Output Current	VBAT=4.2v			220	mA
capacity					
V_CAM					
Status after reset	On				
Output Voltage	Vcam_vsel=1	1.71	1.82	1.93	V
	Vcam_vsel=0	2.53	2.81	3.10	V
Output Current	Vcam_vsel=1			200	mA
capacity	Vcam_vsel=0			220	mA
V_MMC					
Status after reset	Off				
Output Voltage	Vmmc_vsel=1	1.80	1.92	2.04	V
	Vmmc_vsel=0	2.95	3.20	3.29	V
Output Current	Vmmc_vse=1			210	mA
capacity	Vmmc_vsel=0			250	mA
V_LCD					
Status after reset	Off				
Output Voltage	Vlcd_vsel=1	1.72	1.82	1.94	٧
	Vlcd_vsel=0	2.54	2.82	3.12	٧
Output Current	Vlcd_vse=1			200	mA
capacity	Vlcd_vsel=0			260	mA
V_ASW	•				
Status after reset	Off				
Output Voltage	Vasw_vsel=1	1.74	1.82	1.88	V
	Vasw_vsel=0	2.60	2.80	2.98	V
Output Current	Vasw_vse=1			80	mA
capacity	Vasw_vsel=0			140	mA
V_SIM1		•	•		•
Status after reset	Off				
Output Voltage	Vsim1_vsel=1	1.73	1.83	1.88	V

	Vsim1_vsel=0	2.59	2.78	2.96	V
Output Current	Vsim1_vse=1			110	mA
capacity	Vsim1_vsel=0			150	mA
V_SIM2	•	•		-	1
Status after reset	Off				
Output Voltage	Vsim2_vsel=1	1.74	1.82	1.88	V
	Vsim2_vsel=0	2.60	2.79	2.98	V
Output Current	Vsim2_vse=1			110	mA
capacity	Vsim2_vsel=0			150	mA
V_VIB					
Status after reset	Off				
Output Voltage	VBAT=4.2v	2.94	3.18	3.40	V
Output Current	VBAT=4.2v			430	mA
capacity	VBAT=3.4v			170	mA
V_USB					
Status after reset	On				
Output Voltage		2.92	3.3	3.68	V
Output Current	VBAT=4.2v			320	mA
capacity	VBAT=3.4v			220	mA
V_backup					
Status after reset	On				
Output Voltage		2.66	2.8	2.92	V
Output Current	VBAT=4.2v			1.9	mA
capacity	VBAT=3.4v			1.6	mA
V_RTC					
Status after reset	On	<u> </u>			
Output Voltage		1.32	1.50	1.62	V
Output Current	VBAT=4.2v			1.3	mA
capacity					
V_MIC					
Status after reset	Off	1			
Output Voltage		1.62	1.86	2.0	V
Output Current	VBAT=4.2v			0.5	mA
capacity					

4. Change List

RDA MICROELECTRONICS CO., LTD. RDA8955 GSM/GPRS SOC

Rev	Date	Author	Change Description
1.0.0	2017-07-01	Miao Xian	Original draft
1.0.1	2017-09-09	Miao Xian	Add DCDC and LDOs Characteristics
1.0.2	2017-09-09	Miao Xian	Fix VMMC output voltage in the LDOs Characteristics

