

SLM759

2019 9

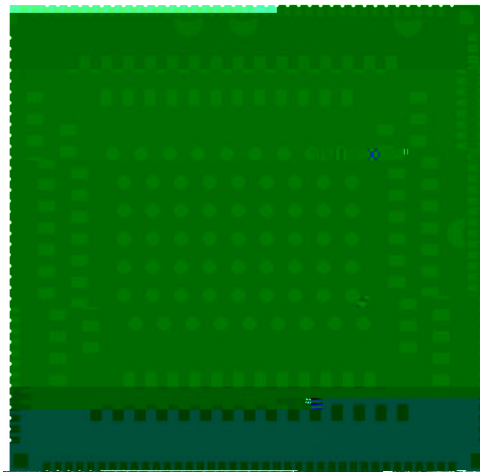
SLM759

V1.01



SLM759

_V1.00



1.

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 \end{aligned}$$

2.

		“ * ”
		Qualcomm SDM450& MSM8953
CPU	Octa-core A53 (64bit) 8*1.8GHz SLM759L	
	*Octa-core A53 (64bit) 8*2.0GHz SLM759N	
GPU	Adreno506; 650MHz	
		16GB eMMC + 2GB LPDDR3 933Mhz
		* 32GB+4GB memory
		Android 7.1
		43.0x44.0x2.85mm LCC + LGA 323pin
		-30~75 ° C
		-40~85 ° C
		TDD-LTE: B38/39/40/41 FDD-LTE: B1/3/5/8 TD-SCDMA: B34/39 WCDMA: B1/5/8 EVDO: BC0 CDMA: BC0 GSM: B5/3/8
Wi-Fi	IEEE 802.11 a/b/g/n 2.4G&5G * 11ac * 5G FEM	
Bluetooth	BT4.1	
GNSS	GPS/Beidou/Glonass/Galileo	
	TD-LTE	Cat4 TD-LTE 117/30Mbps
	FDD-LTE	Cat4 FDD-LTE 150/50Mbps
	DC-HSPA+	42/11.2Mbps
	TD-HSPA	2.8/2.3Mbps
	EVDO Rev.A	3.1/1.8Mbps
	EDGE	Class12, 236.8kbps/236.8kbps
	GPRS	Class12, 85.6kbps/85.6kbps
SIM	DSDS 3.0/1.8V SIM LW/G/T+G	

	L/W/G/T+W L/W/G/T+1X L/EVDO/CDMA1X+G CDMA			
Display	Matrix: FULL HD: 1920*1200 60fps;			
	LCM Size: User defined			
	Interface: 1st LCM MIPI DSI 4-lane; 2nd LCM MIPI DSI 4-lane			
Camera	Interface: CSI 4-Lane			
	Pixel: 13-24Mp/ up to 13Mp ISP 13MP			
	Camera			
	Video decode	4K 30fps SLM759L , 1080p 60fps, H.264/H.265 MP4/ WMV9/ VC1/ DivX/ VP8/VP9 4K		
Video encode				

		1	MIC	
		1	MIC	
	Audio	1		0.8W D
		1		
		1		

3.

SLM759-E	TDD-LTE: B38/40/41 FDD-LTE: B1/3/5/7/8/20/28A WCDMA: B1/2/5/8 GSM: B2/3/5/8
SLM759-A	FDD-LTE B2/4/5/7/12/13/17/25/26 TDD-LTE B41 WCDMA B1/2/4/5 GSM B2/5
SLM759-J	FDD-LTE B1/3/8/19/26 TDD-LTE B41 WCDMA B1/6/8/19
SLM759-AU	FDD-LTE: B1/3/5/7/8/28 TDD-LTE: B40 WCDMA: B1/2/5/8 GSM: B2/3/5/8
SLM759-LA	FDD-LTE B2/4/5/7/8/28 TDD-LTE B40 WCDMA B2/5/8 GSM B2/5/8
WIFI-Only SNM759	WIFI 802.11a/b/g/n/ac* BT4.2

4.SLM759

SLM759 272pin

PIN#	SLM759 PIN Name	Pad characteristics	Functional description
PIN1	VDD_RF	PO	Power for RF in SLM759 module
PIN2	VDD_RF	PO	Power for RF in SLM759 module
PIN3	GND	GND	GND
PIN4	GND	GND	GND
PIN5	UART2_MSM_TX	B-PD:nppukp	Configurable I/O, UART2 TX
PIN6	UART2_MSM_RX	B-PD:nppukp	Configurable I/O, UART2 RX
PIN7	GPIO12_UART4_TX	B-PD:nppukp	Configurable I/O, UART4 TX
PIN8	GPIO13_UART4_RX	B-PD:nppukp	Configurable I/O, UART4 RX
PIN9	VREG_L5_1P8	PO	PMIC output 1.8V for LCD,CAM,TP, sensor
PIN10	VREG_L6_1P8	PO	PMIC output 1.8V for digital I/Os
PIN11	VREG_L10_2P8_SENSOR	PO	PMIC output 2.8V for sensor
PIN12	VREG_L17_2P85	PO	PMIC output 2.8V for LCD,CAM,TP
PIN13	VREG_L2_1P1	PO	PMIC output 1.1V for main camera DVDD
PIN14	VREG_L22_2P8	PO	PMIC output 2.8V for camera AVDD
PIN15	VREG_L23_1P175	PO	PMIC output 1.175V for front camera DVDD
PIN16	VCOIN	AI,AO	Coin-cell battery or backup battery
PIN17	BAT_CON_ID	AI	Battery ID input to ADC
PIN18	GND	GND	GND
PIN19	RF_MAIN	AI	RF signal for main ANT
PIN20	GND	GND	GND
PIN21	LCD_BL_LED_A	PO	LCD Backlight anode
PIN22	LCD_BL_LED_K1	AI	LCD Backlight cathode1(20mA)
PIN23	LCD_BL_LED_K2	AI	LCD Backlight cathode2(20mA)
PIN24	LCD_BL_LED_K3	AI	LCD Backlight cathode3(20mA)
PIN25	LCD_BL_LED_K4	AI	LCD Backlight cathode4(20mA)
PIN26	FLASH_LED1+	AO	FLASH LED anode(1A)
PIN27	BAT_PLUS	AI	Battery plus(+)terminal sense input
PIN28	BAT_MINUS	AI	Battery minus(-)terminal sense input
PIN29	BAT_THERM	AI	Battery temperature input to ADC
PIN30	USB_ID	AI	USB ID
PIN31	GND	GND	GND
PIN32	USB_DP	AI,AO	USB data plus

PIN33	USB_DM	AI,AO	USB data minus
PIN34	GND	GND	GND
PIN35	GND	GND	GND
PIN36	VBAT_SNS	AI	battery voltage input to ADC
PIN37	VBAT	PI,PO	Battery,3.5V-4.2V,default 3.8V
PIN38	VBAT	PI,PO	Battery,3.5V-4.2V,default 3.8V
PIN39	KYPD_PWR_N1	DI	KEY POWER ON/OFF
PIN40	GND	GND	GND
PIN41	VBUS	PI,PO	USB Voltage
PIN42	VBUS	PI,PO	USB Voltage
PIN43	GND	GND	GND
PIN44	MIC_IN1_P	AI	Microphone 1 input plus
PIN45	MIC_IN1_M	AI	Microphone 1 input minus
PIN46	MIC_IN2_P	AI	Microphone input 2
PIN47	GND	GND	GND
PIN48	CDC_HS_DET	AI	MBHC mechanical insertion/removal-detection
PIN49	CDC_HPH_L	AO	Headphone output, left channel
PIN50	CDC_HPH_REF	AI	Headphone ground reference
PIN51	CDC_HPH_R	AO	Headphone output, right channel
PIN52	CDC_EAR_M	AO	Earpiece output, minus
PIN53	CDC_EAR_P	AO	Earpiece output, plus
PIN54	SPKR_DRV_M	AO	Class-D speaker driver output, minus
PIN55	SPKR_DRV_P	AO	Class-D speaker driver output, plus
PIN56	GND	GND	GND
PIN57	FORCE_USB_BOOT	DI	Pull up with VREG_L5 to forced USB boot
PIN58	GPIO22_I2C6_SDA	B-PD:nppukp	Configurable I/O, I2C SDA

PIN74	GPIO40_MCAM_RST_N	B-PD:nppukp	Configurable I/O, main CAM RESET
PIN75	CAM_I2C_SCL0	B-PD:nppukp	Configurable I/O, Dedicated camera I2C0 SCL
PIN76	CAM_I2C_SDA0	B-PD:nppukp	Configurable I/O, Dedicated camera I2C0 SDA
PIN77	MIPI_CSI2_CLK_P	AI	MIPI camera serial interface 2 clock+
PIN78	MIPI_CSI2_CLK_N	AI	MIPI camera serial interface 2 clock-
PIN79	MIPI_CSI2_LANE0_P	AI	MIPI camera serial interface 2 lane0+
PIN80	MIPI_CSI2_LANE0_N	AI	MIPI camera serial interface 2 lane0-
PIN81	MIPI_CSI2_LANE1_P	AI	MIPI camera serial interface 2 lane1+
PIN82	MIPI_CSI2_LANE1_N	AI	MIPI camera serial interface 2 lane1-
PIN83	MIPI_CSI2_LANE2_P	AI	MIPI camera serial interface 2 lane2+
PIN84	MIPI_CSI2_LANE2_N	AI	MIPI camera serial interface 2 lane2-
PIN85	MIPI_CSI2_LANE3_P	AI	MIPI camera serial interface 2 lane3+
PIN86	MIPI_CSI2_LANE3_N	AI	MIPI camera serial interface 2 lane3-
PIN87	GND	GND	GND
PIN88	MIPI_CSI0_CLK_P	AI	MIPI camera serial interface 0 clock+
PIN89	MIPI_CSI0_CLK_N	AI	MIPI camera serial interface 0 clock-
PIN90	MIPI_CSI0_LANE0_P	AI	MIPI camera serial interface 0 lane0+
PIN91	MIPI_CSI0_LANE0_N	AI	MIPI camera serial interface 0 lane0-
PIN92	MIPI_CSI0_LANE1_P	AI	MIPI camera serial interface 0 lane1+
PIN93	MIPI_CSI0_LANE1_N	AI	MIPI camera serial interface 0 lane1-
PIN94	MIPI_CSI0_LANE2_P	AI	MIPI camera serial interface 0 lane2+
PIN95	MIPI_CSI0_LANE2_N	AI	MIPI camera serial interface 0 lane2-
PIN96	MIPI_CSI0_LANE3_P	AI	MIPI camera serial interface 0 lane3+
PIN97	MIPI_CSI0_LANE3_N	AI	MIPI camera serial interface 0 lane3-
PIN98	GND	GND	GND
PIN99	GPIO26_CAM_MCLK0	B-PD:nppukp	Configurable I/O, main CAM MCLK

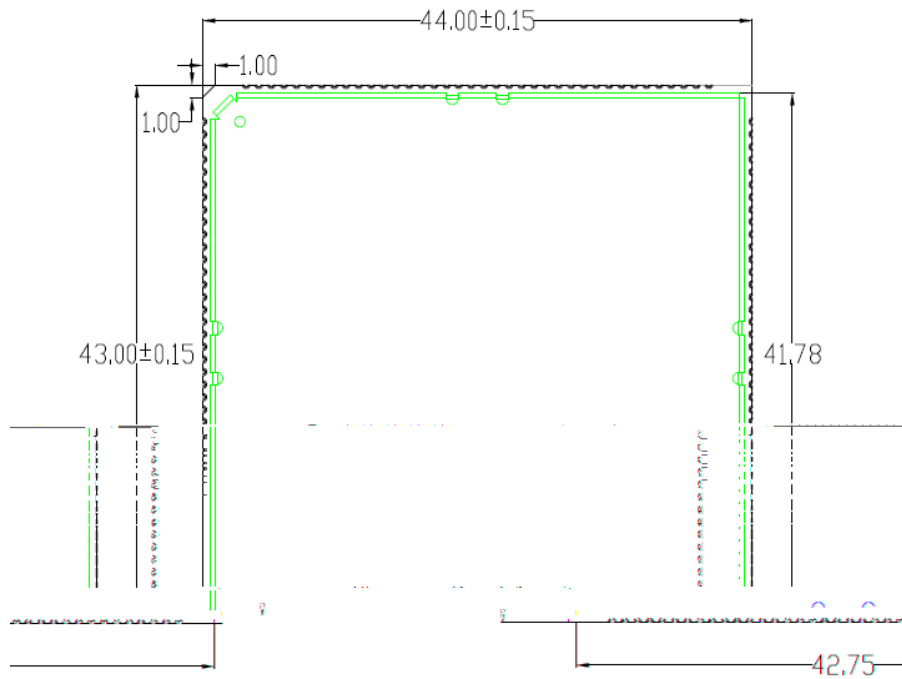
PIN114	GPIO25_LCD_TE1	B-PD:nppukp	Configurable I/O, secondary LCD TE
PIN115	MIPI_DSI0_CLK_P	AO	MIPI display serial interface 0 clock+
PIN116	MIPI_DSI0_CLK_N	AO	MIPI display serial interface 0 clock-
PIN117	MIPI_DSI0_LANE0_P	AI	MIPI display serial interface 0 lane0+
PIN118	MIPI_DSI0_LANE0_N	AI	MIPI display serial interface 0 lane0-
PIN119	MIPI_DSI0_LANE1_P	AI	MIPI display serial interface 0 lane1+
PIN120	MIPI_DSI0_LANE1_N	AI	MIPI display serial interface 0 lane1-
PIN121	MIPI_DSI0_LANE2_P	AI	MIPI display serial interface 0 lane2+
PIN122	MIPI_DSI0_LANE2_N	AI	MIPI display serial interface 0 lane2-
PIN123	MIPI_DSI0_LANE3_P	AI	MIPI display serial interface 0 lane3+
PIN124	MIPI_DSI0_LANE3_N	AI	MIPI display serial interface 0 lane3-
PIN125	GND	GND	GND
PIN126	GPIO24_LCD_TE0	B-PD:nppukp	Configurable I/O, primary LCD TE
PIN127	GPIO61_LCD_RST_N	B-PD:nppukp	Configurable I/O, primary LCD RESET
PIN128	GND	GND	GND
PIN129	2.4G/5G_ANT	AI	RF signal for 2.4G/5G WIFI&BT
PIN130	GND	GND	GND
PIN131	GPIO15_SENSOR_I2C4_SCL	B-PD:nppukp	Configurable I/O, SENSOR I2C SCL
PIN132	GPIO14_SENSOR_I2C4_SDA	B-PD:nppukp	Configurable I/O, SENSOR I2C SDA
PIN133	GND	GND	GND
PIN134	GPS_ANT	AI	RF signal for GPS ANT

PIN155	Reserved		Reserved
PIN156	Reserved		Reserved
PIN157	CHG_LED	AO	Current sink for charging indication
PIN158	PMI8952_MPP2	AO-Z,AI,DO	Configurable MPP,PWM,ADC
PIN159	GND	GND	GND
PIN160	PMI_HAP_OUT_N	AO	Haptics driver output negative
PIN161	PMI_HAP_OUT_P	AO	Haptics driver output positive
PIN162	FLASH_LED2+	AO	FLASH LED anode(1A)
PIN163	GND	GND	GND
PIN164	VREF_BAT_THERM	AI	Battery temperature input to ADC

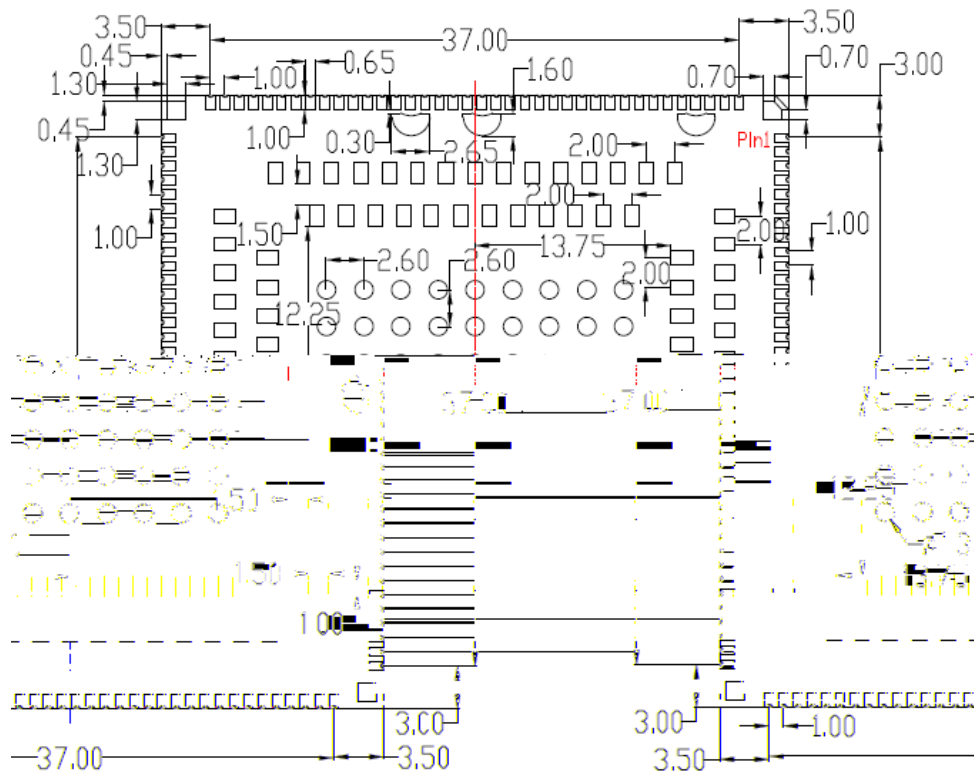
			SCL
PIN197	CAM_I2C_SDA1	B-PD:nppukp	Configurable I/O, Dedicated camera I2C1 SDA
PIN198	GPIO17_UART5_RX	B-PD:nppukp	Configurable I/O,UART5 RX
PIN199	GPIO16_UART5_TX	B-PD:nppukp	Configurable I/O,UART5 TX
PIN200	GPIO3_SPI1_CLK	B-PD:nppukp	Configurable I/O, SPI CLK
PIN201	GPIO2_SPI1_CS	B-PD:nppukp	Configurable I/O, SPI CS
PIN202	GPIO50_LNA_EN	B-PD:nppukp	Configurable I/O, LNA_EN
PIN203	GPIO136_FP_SPI_CS	B	

PIN233	S2B		connect to S2A
PIN234	GPIO66	B-PD:nppukp	Configurable I/O
PIN235	Reserved		Reserved
PIN236	GPIO128	B-PD:nppukp	Configurable I/O
PIN237	GPIO36	B-PD:nppukp	Configurable I/O
PIN238	GPIO33	B-PD:nppukp	Configurable I/O
PIN239	Reserved		Reserved
PIN240	Reserved		Reserved
PIN241	GRFC7_SEL	B-PD:nppukp	Configurable I/O,GRFC7_SEL
PIN242	GRFC5_SEL	B-PD:nppukp	Configurable I/O,GRFC7_SEL
PIN243	GND	GND	GND
PIN244	Reserved		Reserved
PIN245	GPIO19_NFC_I2C5_SCL	B-PD:nppukp	Configurable I/O,NFC I2C SCL
PIN246	GPIO18_NFC_I2C5_SDA	B-PD:nppukp	Configurable I/O, NFC I2C SDA
PIN247	GPIO1_SPI_MISO	B-PD:nppukp	Configurable I/O, SPI MISO
PIN248	GPIO0_SPI_MOSI	B-PD:nppukp	Configurable I/O, SPI MOSI
PIN249	GPIO137_FP_SPI_MOSI	B-PD:nppukp	Configurable I/O, fingerprint SPI MOSI
PIN250	GPIO135_FP_SPI_CLK	B-PD:nppukp	Configurable I/O, fingerprint SPI CLK
PIN251	GPIO138_FP_SPI_MISO	B-PD:nppukp	Configurable I/O, fingerprint SPI MISO
PIN252	GPIO42_ACCL_INT1	B-PD:nppukp	Configurable I/O,ACCL INT
PIN253	GPIO43_ALSP_INT_N	B-	

TOP



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