

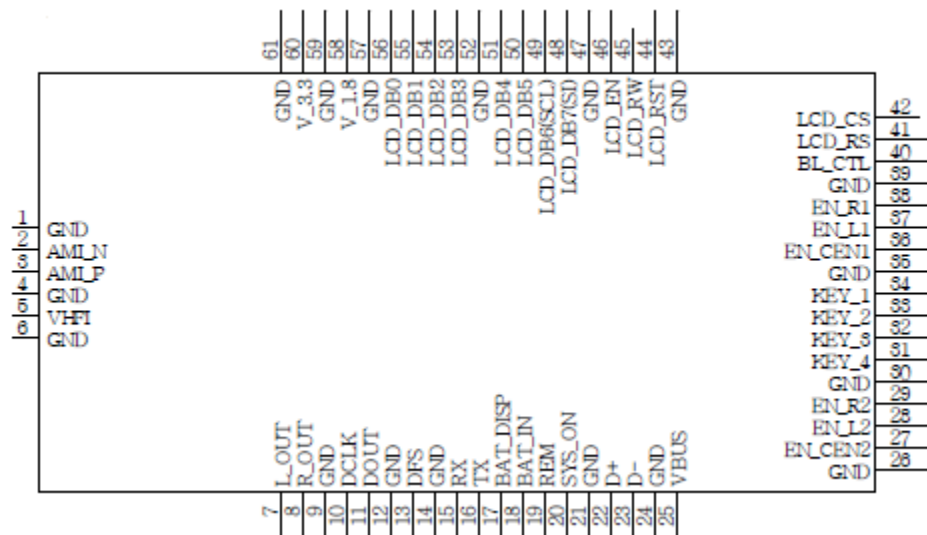
Si46xx SL200

Master Module Pinout

Version 2.0.2

Description:

The SL200 module is a Si46xx + C8051F380 based digital radio master module. The module controls the radio related I/O for the system: LCD, keypad, rotary encoders, etc. The connector is a custom, solderable, edge connect where the module lies directly on the system board.



<u>Pin Number</u>	<u>Pin Name</u>	<u>I/O</u>	<u>Description</u>
1	GND	---	
2	AMI_N	In	The AM negative input
3	AMI_P	In	The AM positive input
4	GND	---	RF Ground – no split plane
5	VHFI	In	The FM/DAB input signal
6	GND	---	
7	LOUT	Out	Analog Audio Out – Left
8	ROUT	Out	Analog Audio Out – Right
9	GND	---	
10	DCLK	In/Out	I2S Audio: Bit Clock (Configurable Direction)
11	DOUT	Out	I2S Audio: Audio Data
12	GND	---	
13	DFS	In/Out	I2S Audio: Frame Sync (Configurable Direction)
14	GND	---	
15	RX	---	Unused
16	TX	---	Unused
17	BAT_DISP	In	Digital indication that battery is present. 0 = External Source Applied (battery charging if applicable), 1 = Battery Only. Note: for best usage, the BAT_DISP signal should remain low any time there is external power, be sure to check your battery charger (if applicable) that its “charging” indication does not go high when the external power is present but no more charging is occurring.
18	BAT_IN	In	Analog Input for battery voltage measurement. Note: This voltage measurement should be adjusted to provide < 3.3V full scale voltage.
19	REM	---	Unused
20	SYS_ON	Out	Enable signal for 1.8V supply rail. Ensures MCU is started first.
21	GND	---	
22	USB_D+	In	(Optional) USB data+ for “field update” of MCU and digital radio firmware
23	USB_D-	In/Out	(Optional) USB data- for “field update” of MCU and digital radio firmware
24	GND	---	
25	VBUS	In	(Optional) +5V USB power rail for “field update” of MCU and digital radio firmware
26	GND	---	

27	EN_CEN2	In	Encoder 2 (Tune/Browse): Center Press. 0 = Pressed, 1 = Not Pressed
28	EN_L2	In	Encoder 2 (Tune/Browse): Rotate Counter Clockwise
29	EN_R2	In	Encoder 2 (Tune/Browse): Rotate Clockwise
30	GND	---	
31	KEY_4	In	Keypad (4 per row): Row 4
32	KEY_3	In	Keypad (4 per row): Row 3
33	KEY_2	In	Keypad (4 per row): Row 2
34	KEY_1	In	Keypad (4 per row): Row 1
35	GND	---	
36	EN_CEN1	In	Encoder 1 (Volume): Center Press. 0 = Pressed, 1 = Not Pressed
37	EN_L1	In	Encoder 1 (Volume): Rotate Counter Clockwise
38	EN_R1	In	Encoder 1 (Volume): Rotate Clockwise
39	GND	---	
40	BL_CTL	Out	LCD: Hardware control of the LCD backlight: 0 = off, 1 = on. Note: this is a 3.3V output, LCD may require 5V I/O for backlight
41	LCD_RS	Out	LCD: Register Select
42	LCD_CS	---	Unused
43	GND	---	
44	MUTE (was LCD_RST)	Out	Hardware control for any Audio Amplifier hardware to mute output. 0 = Not Muted, 1 = Muted
45	LCD_RW	---	Unused
46	LCD_EN	Out	LCD: Enable
47	GND	---	
48	LCD_DB7	Out	LCD: Data Bit 7
49	LCD_DB6	Out	LCD: Data Bit 6
50	LCD_DB5	Out	LCD: Data Bit 5
51	LCD_DB4	Out	LCD: Data Bit 4
52	GND	---	
53	LCD_DB3	Out	LCD: Data Bit 3
54	LCD_DB2	Out	LCD: Data Bit 2
55	LCD_DB1	Out	LCD: Data Bit 1
56	LCD_DB0	Out	LCD: Data Bit 0
57	GND	---	
58	V_1.8	In	The 1.8V supply input
59	GND	---	
60	V_3.3	In	The 3.3V supply input
61	GND	---	