

Pin	Features					Microchip board-DM320104
1	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT			RG15/nRST
2	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT			RA5/RST—MBUS2-RST—J14-8
3	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	PWM-2C	SOUND-LEFT	RPE5/REFCLKO1—J14-14
4	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT			RPE6/LED3
5	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT			RE7—J17-18
6	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	COUNT	PWM-2A	RC1/U2CTS—J14-4
7	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	COUNT		RPC2/U2TX—MMBUS2-TX--J14-5
8	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	COUNT		RPC3/U2RX—MMBUS2-RX--J14-3
9	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	COUNT	IR	RC4/U2RTS—J14-6
10	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SPI2-CLK		RG6/SCK2—MBUS2-SCK—J14-12
11	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	I2C-SDA		RG7/SDO2--MBUS2-MOSI-J14-13
12	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	I2C-CLK		RG8/ECRSDV
13	VSS					
14	VDD					
15	MCLR					MCLR
16	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	PWM-1C		RG9/EREF_CLK
17	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT			RA0/WIFI_SLEEP
18	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SOUND-RIGHT		RPE8/PWM—MBUS1-PWM
19	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	VGA-BLU-SS		RE9—J17-3
20	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SSD1963-D5		RB5/LED_R
21	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SSD1963-D4	VGA-VSYNC	RPB4/AN4—MBUS1-AN
22	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SSD1963-D3		RB3—J17-4
23	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SSD1963-D2		RB2—J17-5
24	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SSD1963-D1		RB1/LED_G
25	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SSD1963-D0		RB0/LED_B
26	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SSD1963-D6		PGEC2--ICSP
27	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SSD1963-D7		PGED2--ICSP
28	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT			RA9/RST—MBUS1-RST
29	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT			RA10—JP17-6
30	AVDD					
31	AVSS					
32	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SSD1963-D8	VGA-GRN-OUT	SPI_CS/MODE1
33	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SSD1963-D9	VGA-BLU-OUT	SPI_MOSI
34	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SSD1963-D10	VGA-RED-OUT	SPI_MISO
35	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SSD1963-D11		RB11/ERXERR
36	VSS					
37	VDD					
38	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT			AN29/RA1—MBUS2-AN
39	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	COM1-EN	VGA-BLU-CLK	RF13/INT1—MBUS1-INT
40	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	PWM-2B		RF12/INT2—MBUS2-INT
41	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SSD1963-D12		RB12/ERXD0
42	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SSD1963-D13		RB13/ERXD1
43	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SSD1963-D14	VGA-RED-CLK	SPI_CLK
44	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	SSD1963-D15	VGA-RED-SS	RB15—J17-7
45	VSS					
46	VDD					
47	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	COM1-RX		RPD14/SDI1—MBUS1-MISO
48	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT	VGA-GRN-CLK		RPD15/U1TX—MBUS1-TX
49	OSC1					OSCI
50	OSC2	-	unused			OSCO
51	VBUS					
52	VDD					
53	VSS					
54	D-					DN
55	D+					DP
56	USBID					RPF3/USBID
57	DIGITAL_IN	DIGITAL_OUT	COM3-TX			RF2/PWM—MBUS2-PWM
58	DIGITAL_IN	DIGITAL_OUT	COM3-RX			RF8—J17-14
59	DIGITAL_IN	DIGITAL_OUT	Snadpic-SD-CD	I2C2-CLK		SCL2--MBUS2-SCL—J14-7
60	DIGITAL_IN	DIGITAL_OUT	I2C2-SDA			SDA2--MMBUS2—SDA—J14-9
61	DIGITAL_IN	DIGITAL_OUT				RA4—J17-17
62	VDD					
63	VSS					
64	DIGITAL_IN	DIGITAL_OUT	VGA-GRN-SS			RF4/WIFI_INT
65	DIGITAL_IN	DIGITAL_OUT	COM1-TX			RF5—J17-15
66	DIGITAL_IN	DIGITAL_OUT	SPI2-OUT			SCL1—MMBUS1-SCL
67	DIGITAL_IN	DIGITAL_OUT	SPI3-OUT			SDA1—MMBUS1-SDA

68	DIGITAL_IN	DIGITAL_OUT				RD9—J17-13
69	DIGITAL_IN	DIGITAL_OUT	SPI3-CLK			RD10/U1RX—MBUS1-RX
70	DIGITAL_IN	DIGITAL_OUT	SPI3-IN			RD11/EMDC
71	DIGITAL_IN	DIGITAL_OUT	PWM-1B			RPD0/SMDIO
72	DIGITAL_IN	DIGITAL_OUT	SPI2-IN			RC13—J17-12
73	DIGITAL_IN	DIGITAL_OUT	PWM-1A			
74	VDD					
75	VSS					
76	DIGITAL_IN	DIGITAL_OUT	SPI-CLK			RPD1/SCK1—MBUS1-SCK
77	DIGITAL_IN	DIGITAL_OUT	SPI-IN			RPD2/ETXEN
78	DIGITAL_IN	DIGITAL_OUT	SPI-OUT			RPD3/SDO1—MBUS1-MOSI
79	DIGITAL_IN	DIGITAL_OUT	VGA-HSYNC			RD12—J17-11
80	DIGITAL_IN	DIGITAL_OUT				RD13—J17-12
81	DIGITAL_IN	DIGITAL_OUT	Snadpic-SD-CS			RPD4/SS1—MBUS1-CS
82	DIGITAL_IN	DIGITAL_OUT				RPD5/SS2—MBUS2-CS—J14-10
83	VDD					
84	VSS					
85	DIGITAL_IN	DIGITAL_OUT	COM4-TX	CONSOLE-TX		RPF0/ETXD1
86	DIGITAL_IN	DIGITAL_OUT	COM4-RX	CONSOLE-RX		RPF1/ETXD0
87	DIGITAL_IN	DIGITAL_OUT	COM2-TX			RG1—J17-9
88	DIGITAL_IN	DIGITAL_OUT	COM2-RX			RPG0/SDI2--MBUS2-MISO-J14-11
89	DIGITAL_IN	DIGITAL_OUT	KBD-CLK			RA6—J17-16
90	DIGITAL_IN	DIGITAL_OUT	KBD-DAT			RA7/VBUS_FAULT
91	DIGITAL_IN	DIGITAL_OUT	MOUSE-CLK			RE0—J17-8
92	VSS					
93	VDD					
94	DIGITAL_IN	DIGITAL_OUT	MOUSE-DAT			RE1—J17-1
95	DIGITAL_IN	DIGITAL_OUT	SSD1963-RESET			RG14/nINT
96	DIGITAL_IN	DIGITAL_OUT	SSD1963-RS			RG12/SW1
97	DIGITAL_IN	DIGITAL_OUT	SSD1963-WR			RG13/VBUSON
98	DIGITAL_IN	DIGITAL_OUT				RE2—J107-2
99	DIGITAL_IN	DIGITAL_OUT	HEARTBEAT			RE3/LED1
100	ANALOG_IN	DIGITAL_IN	DIGITAL_OUT			RE4/LED2