

dsPIC33CK1024MP710 General Purpose Plug-In Module (PIM) Information Sheet

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Overview

The dsPIC33CK1024MP710 General Purpose Plug-In Module (EV74M01A) is designed to demonstrate the capabilities of the dsPIC33CK1024MP710 family using the Explorer 16/32 Development Board. Refer to [Table 1](#) and [Table 2](#) for the mapping of the physical pins on the dsPIC33CK1024MP710 to the 100 pins on the PIM connector.

Not all predefined PIM signals found on the Explorer 16/32 are connected due to the limited amount of I/O pins available.

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Table 1: dsPIC33CK1024MP710 PIM Mapping

PIM Pin #	Device Pin #	dsPIC33CK1024MP710 I/Os	Function	Explorer 16/32 Net Name
1	—	—	USB Type-C™ Vbus	P1_VBUS
2	14, 33, 39, 64, 88	VDD Pins Plus AVDD	VDD + AVDD	VDD_PIM
3	81	RE13	LCD D5	P3_LCDD5_RE13
4	94	RE14	LCD D6	P4_LCDD6_RE14
5	98	RE15	LCD D7	P5_LCDD7_RE15
6	18	OA1OUT/AN0/CMP1A/IBIAS0/RA0	General Purpose I/O	P6_RA0
7	21	OA1IN/ANA1/RA1	General Purpose I/O	P7_RA1
8	54	PGD2/OA2IN/AN8/CMP4A/RP35/RB3	General Purpose I/O	P8_RB3
9	57	PGC2/OA2IN+/RP36/RB4	General Purpose I/O	P9_RB4
10	37	OA3IN+/AN14/CMP2B/ISRC1/RP50/PMD13/PMA13/RC2	EEPROM (SCK) and mikroBUS™ A SCK	P10_SCKA_RC2
11	66	RP70/PMD14/RD6	EEPROM (MSDI) and mikroBUS A MISO	P11_MISOA_RD6
12	41	AN15/ANN2/CMP2A/IBIAS2/RP51/PMD11/PMA11/RC3	EEPROM (MSDO) and mikroBUS A MOSI	P12_MOSIA_RC3
13	10	MCLR	MCLR	P13_MCLR
14	86	RP67/ASCL3/RD3	mikroBUS A Chip Select	P14_CSA_RD3
15	13, 34, 40, 63, 87	Vss Pins Plus AVss	Vss + AVss	VSS
16	14, 33, 39, 64, 88	VDD Pins Plus AVDD	Vdd + AVDD	VDD_PIM
17	2	AN20/ANCO/CMP5C/RE0	LED D3	P17_LED3_RE0
18	100	RP45/PWM2L/PMD4/RB13	mikroBUS B Interrupt	P18_INTB_RB13
19	38	AN17/ANN1/CMP4B/IBIAS1/RP54/PMD12/PMA12/RC6	mikroBUS B Reset	P19_RSTB_RC6
20	30	OA3OUT/AN4/ANB1/ANB2/CMP3B/IBIAS3/RA4	10k Potentiometer	P20_POT_RA4
21	50	DACOUT2/AN16/CMP4C/ISRC2/RP55/PMD8/PMA8/RC7	TC1047A Temp. Sensor	P21_TEMP_RC7
22	36	OA3IN-/AN13/CMP1B/ISRC0/RP49/PMA7/RC1	General Purpose I/O	P22_RC1
23	72	TDO/AN2/AN30/CMP3A/RP39/SDA3/RB7	mikroBUS B Chip Select	P23_CSB_RB7
24	51	OA2OUT/AN1/AN7/ANA0/ANA2/ANA3/CMP1D/CMP2D/CMP3D/CMP4D/CMP5D/CMP6D/RP34/SCL3/INT0/RB2	mikroBUS B Analog	P24_ANB_RB2
25	27	DACOUT1/AN3/AN31/CMP1C/RA3	mikroBUS A Analog or USB Overcurrent Sense	P25_ANA_USBOC_RA3
26	69	PGC3/RP38/SCL2/RB6	ICSP™ PGC	P26_PGC_RB6
27	68	PGD3/RP37/SDA2/PMA14/PMCS1/PSCS/RB5	ICSP PGD	P27_PGD_RB5
28	44	AN19/ANB0/CMP2C/RP75/PMA0/PMALL/PSA0/RD11	General Purpose I/O	P28_RD11
29	55	RE9	General Purpose I/O	P29_RE9
30	14, 33, 39, 64, 88	VDD Pins Plus AVDD	VDD + AVDD	VDD_PIM
31	13, 34, 40, 63, 87	Vss Pins Plus AVss	Vss + AVss	VSS
32	24	OA1IN+/AN9/PMA6/RA2	USB Type-C CC2 Sense Line	P32_CC2_RA2
33	17	AN12/ANN0/RP48/RC0	USB Type-C CC1 Sense Line	P33_CC1_RC0
34	5	RP80/RF0	General Purpose I/O	P34_RF0
35	12	RP81/RF1	General Purpose I/O	P35_RF1
36	13, 34, 40, 63, 87	Vss Pins Plus AVss	Vss + AVss	VSS
37	14, 33, 39, 64, 88	VDD Pins Plus AVDD	VDD + AVDD	VDD_PIM
38	4	AN21/ANC1/CMP6B/RE1	LED D4	P38_LED4_RE1
39	92	TMS/RP42/PWM3H/PMD1/RB10	General Purpose I/O	P39_RB10
40	93	TCK/RP43/PWM3L/PMD2/RB11	General Purpose I/O	P40_RB11
41	29	AN24/RP86/RF6	General Purpose I/O	P41_RF6
42	32	AN25/RP87/RF7	General Purpose I/O	P42_RF7
43	46	AN26/RP88/RF8	General Purpose I/O	P43_RF8
44	73	APWM4L/RE11	LCD RS	P44_LCDRS_RE11
45	13, 34, 40, 63, 87	Vss Pins Plus AVss	Vss + AVss	VSS
46	14, 33, 39, 64, 88	VDD Pins Plus AVDD	VDD + AVDD	VDD_PIM
47	8	RP62/PWM6H/PMA4/RC14	General Purpose I/O	P47_RC14
48	9	RP63/PWM6L/PMA3/RC15	General Purpose I/O	P48_RC15
49	83	RP58/PWM7H/PMRD/PMWR/PSRD/RC10	MCP2221A/mikroBUS B RX	P49_RXB_RC10

Table 1: dsPIC33CK1024MP710 PIM Mapping (Continued)

PIM Pin #	Device Pin #	dsPIC33CK1024MP710 I/Os	Function	Explorer 16/32 Net Name
50	84	RP59/PWM7L/RC11	MCP2221A/mikroBUS B TX	P50_TXB_RC11
51	90	RP65/PWM4H/RD1	mikroBUS™ A TX	P51_TXA_RD1
52	91	RP64/PWM4L/PMD0/RD0	mikroBUS A RX	P52_RXA_RD0
53	62	RP72/SDO2/PC119/RD8	mikroBUS B MOSI	P53_MOSIB_RD8
54	59	RP57/ASCL1/SD12/RC9	mikroBUS B MISO	P54_MISOB_RC9
55	58	RP56/ASDA1/SCK2/RC8	mikroBUS B SCKB	P55_SCKB_RC8
56	77	PGC1/AN11/CMP5A/RP41/SDA1/RB9	Shared I ² C SDA	P56_SDA_RB9
57	75	PGD1/AN10/CMP6A/RP40/SCL1/RB8	Shared I ² C SCL	P57_SCL_RB8
58	19	AN22/ANB3/CMP6C/RE2	LED D5	P58_LED5_RE2
59	22	AN23/ANN3/RE3	LED D6	P59_LED6_RE3
60	28	RE4	LED D7	P60_LED7_RE4
61	31	RE5	LED D8	P61_LED8_RE5
62	14, 33, 39, 64, 88	VDD Pins Plus AVDD	VDD + AVDD	VDD_PIM
63	42	OSCI/CLKI/AN5/RP32/PMD10/PMA10/RB0	Primary Oscillator In	P63_OSCI_RB0
64	43	OSCO/CLKO/AN6/RP33/PMA1/PMALH/PSA1/RB1	Primary Oscillator Out	P64_OSICO_RB1
65	13, 34, 40, 63, 87	Vss Pins Plus AVss	Vss + AVss	VSS
66	97	TDI/RP44/PWM2H/PMD3/RB12	General Purpose I/O	P66_RB12
67	89	RP66/RD2	mikroBUS A Interrupt (digital)	P67_INTA_RD2
68	16	ANNA4/CMP5B/RP77/RD13	General Purpose I/O	P68_RD13
69	82	RP53/PWM5L/ASCL2/PMWR/PMENB/PSWR/RC5	General Purpose I/O	P69_RC5
70	15	RP78/PC121/RD14	General Purpose I/O	P70_RD14
71	49	RP89/RF9	General Purpose I/O	P71_RF9
72	3	RP47/PWM1L/PMD6/RB15	mikroBUS A PWM	P72_PWM_A_RB15
73	—	—	SOSC In	P73_SOSCI
74	—	—	SOSC Out	P74_SOSCO
75	13, 34, 40, 63, 87	Vss Pins Plus AVss	Vss + AVss	VSS
76	47	AN18/ANC2/CMP3C/ISRC3/RP74/PMD9/PMA9/RD10	General Purpose I/O	P76_RD10
77	53	RP90/RF10	General Purpose I/O	P77_RF10
78	80	RP52/PWM5H/ASDA2/RC4	mikroBUS B PWM	P78_PWM_B_RC4
79	52	RE8	EEPROM CS	P79_EECS_RE8
80	61	RP73/PC120/RD9	Switch S4	P80_S4_RD9
81	70	RE10	LCD E	P81_LCD_E_RE10
82	71	RP93/APWM4H/RF13	General Purpose I/O	P82_LCDRW_RF13
83	1	RP46/PWM1H/PMD5/RB14	Switch S3	P83_S3_RB14
84	11	RP79/PC122/PMA2/RD15	Switch S6	P84_S6_RD15
85	—	—	VCAP, 10 µF Capacitor	P85_VDDCORE
86	—	—	ENVREG	P86_ENVREG
87	6	RP60/PWM8H/PMD7/RC12	General Purpose I/O	P87_RC12
88	7	RP61/PWM8L/PMA5/RC13	General Purpose I/O	P88_RC13
89	65	RP71/PMD15/RD7	USB D- to Type-C/A	P89_USBDN_RD7
90	67	RP69/PMA15/PMCS2/RD5	USB D+ to Type-C/A	P90_USBDP_RD5
91	45	RE6	LED D9	P91_LED9_RE6
92	48	RE7	LED D10, Switch S5	P92_S5_LED10_RE7
93	74	RP94/APWM3H/RF14	General Purpose I/O	P93_LCDD0_RF14
94	76	RP95/APWM3L/RF15	General Purpose I/O	P94_LCDD1_RF15
95	85	RP68/ASDA3/RD4	mikroBUS A Reset Pin	P95_RSTA_RD4
96	35	RP76/RD12	Vbus Output Enable for USB Type-C™	P96_VBUSON_RD12
97	79	RP96/APWM2L/RA5	General Purpose I/O	P97_RA5
98	95	RP97/APWM1H/RA6	General Purpose I/O	P98_LCDD2_RA6
99	96	RP98/APWM1L/RA7	General Purpose I/O	P99_LCDD3_RA7
100	78	APWM2H/RE12	LCD D4	P100_LCDD4_RE12

Table 2: dsPIC33CK1024MP710 PIC® MCU Mapping

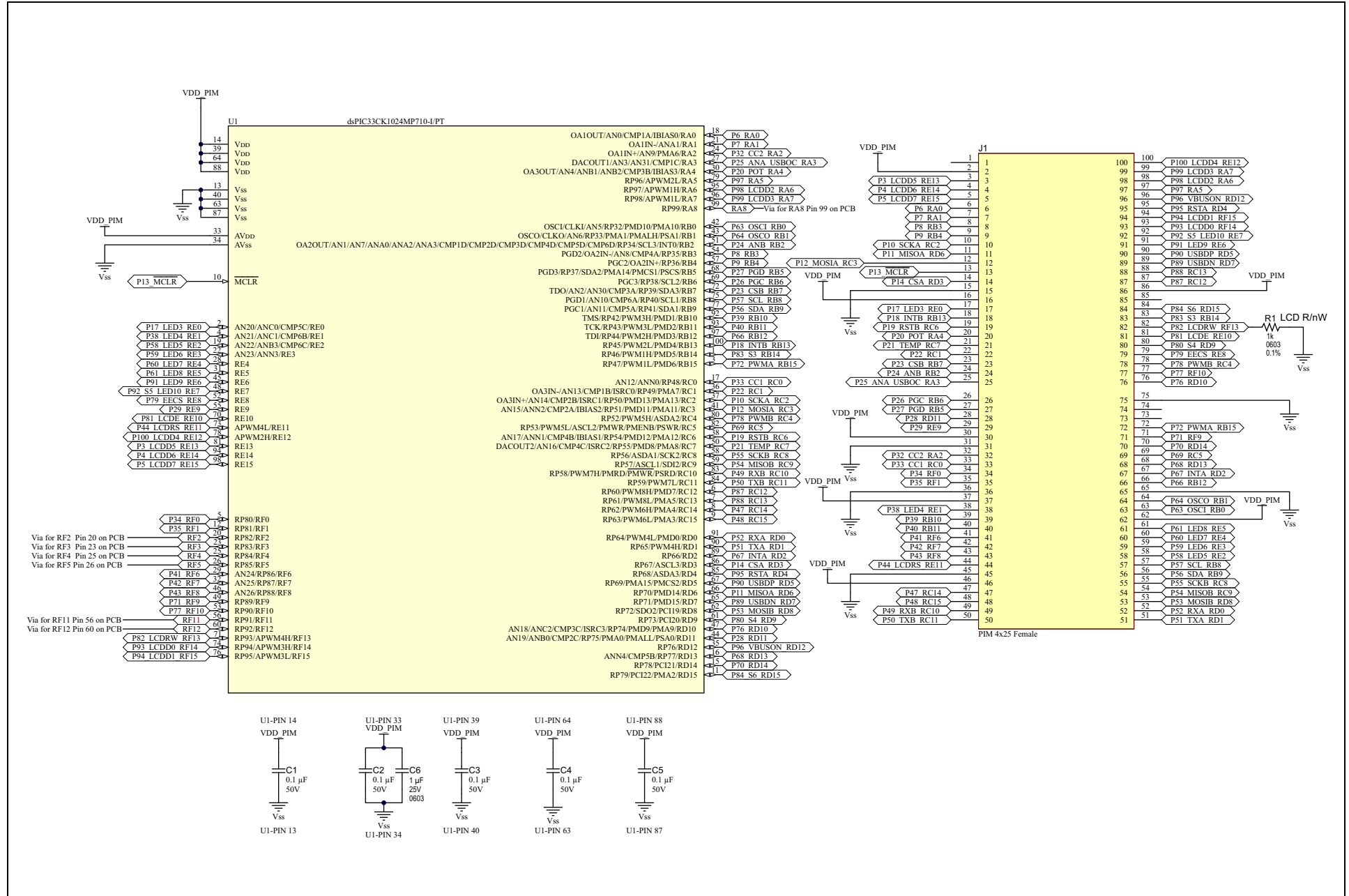
Device Pin #	PIM Pin #	dsPIC33CK1024MP710 I/Os	Function	Explorer 16/32 Net Name
1	83	RP46/PWM1H/PMD5/RB14	Switch S3	P83_S3_RB14
2	17	AN20/ANCO/CMP5C/RE0	LED D3	P17_LED3_RE0
3	72	RP47/PWM1L/PMD6/RB15	mikroBUS™ A PWM	P72_PWMA_RB15
4	38	AN21/ANC1/CMP6B/RE1	LED D4	P38_LED4_RE1
5	34	RP80/RF0	General Purpose I/O	P34_RF0
6	87	RP60/PWM8H/PMD7/RC12	General Purpose I/O	P87_RC12
7	88	RP61/PWM8L/PMA5/RC13	General Purpose I/O	P88_RC13
8	47	RP62/PWM6H/PMA4/RC14	General Purpose I/O	P47_RC14
9	48	RP63/PWM6L/PMA3/RC15	General Purpose I/O	P48_RC15
10	13	MCLR	MCLR	P13_MCLR
11	84	RP79/PCI22/PMA2/RD15	Switch S6	P84_S6_RD15
12	35	RP81/RF1	General Purpose I/O	P35_RF1
13	15, 31, 36, 45, 65, 75	Vss	Vss	VSS
14	2, 16, 30, 37, 46, 62	Vdd	Vdd	VDD_PIM
15	70	RP78/PCI21/RD14	General Purpose I/O	P70_RD14
16	68	ANN4/CMP5B/RP77/RD13	General Purpose I/O	P68_RD13
17	33	AN12/ANNO/RA48/RC0	USB Type-C™ CC1 Sense Line	P33_CC1_RC0
18	6	OA1OUT/ANO/CMP1A/IBIAS0/RA0	General Purpose I/O	P6_RA0
19	58	AN22/ANB3/CMP6C/RE2	LED D5	P58_LED5_RE2
20	—	RP82/RF2	—	—
21	7	OA1IN-/ANA1/RA1	General Purpose I/O	P7_RA1
22	59	AN23/ANN3/RE3	LED D6	P59_LED6_RE3
23	—	RP83/RF3	—	—
24	32	OA1IN+/AN9/PMA6/RA2	USB Type-C CC2 Sense Line	P32_CC2_RA2
25	—	RP84/RF4	—	—
26	—	RP85/RF5	—	—
27	25	DACOUT1/AN3/AN31/CMP1C/RA3	mikroBUS A Analog or USB Overcurrent Sense	P25_ANA_USBOC_RA3
28	60	RE4	LED D7	P60_LED7_RE4
29	41	AN24/RP86/RF6	General Purpose I/O	P41_RF6
30	20	OA3OUT/AN4/ANB1/ANB2/CMP3B/IBIAS3/RA4	10k Potentiometer	P20_POT_RA4
31	61	RE5	LED D8	P61_LED8_RE5
32	42	AN25/RP87/RF7	General Purpose I/O	P42_RF7
33	2, 16, 30, 37, 46, 62	AVdd	AVdd	VDD_PIM
34	15, 31, 36, 45, 65, 75	AVss	AVss	VSS
35	96	RP76/RD12	Vbus Output Enable for USB Type C	P96_VBUSON_RD12
36	22	OA3IN-/AN13/CMP1B/ISRC0/RA9/PMA7/RC1	General Purpose I/O	P22_RC1
37	10	OA3IN+/AN14/CMP2B/ISRC1/RA50/PMD13/PMA13/RC2	EEPROM (SCK) and mikroBUS A SCK	P10_SCKA_RC2
38	19	AN17/ANN1/CMP4B/IBIAS1/RA54/PMD12/PMA12/RC6	mikroBUS B Reset	P19_RSTB_RC6
39	2, 16, 30, 37, 46, 62	Vdd	Vdd	VDD_PIM
40	15, 31, 36, 45, 65, 75	Vss	Vss	VSS
41	12	AN15/ANN2/CMP2A/IBIAS2/RA51/PMD11/PMA11/RC3	EEPROM (MSDO) and mikroBUS A MOSI	P12_MOSIA_RC3
42	63	OSCI/CLKI/AN5/RA32/PMD10/RA10/RB0	Primary Oscillator In	P63_OSCI_RB0
43	64	OSCO/CLKO/AN6/RA33/PMA1/PALH/PSA1/RB1	Primary Oscillator Out	P64_OSOC_RB1
44	28	AN19/ANB0/CMP2C/RA75/PMA0/PMA1/PSA0/RD11	General Purpose I/O	P28_RD11
45	91	RE6	LED D9	P91_LED9_RE6
46	43	AN26/RA88/RF8	Control Signal for Direction Control MUX on Classic Explorer 16	P43_RF8
47	76	AN18/ANC2/CMP3C/ISRC3/RA74/PMD9/RA9/RD10	General Purpose I/O	P76_RD10
48	92	RE7	LED D10, Switch S5	P92_SS_LED10_RE7
49	71	RP89/RF9	General Purpose I/O	P71_RF9

Table 2: dsPIC33CK1024MP710 PIC® MCU Mapping (Continued)

Device Pin #	PIM Pin #	dsPIC33CK1024MP710 I/Os	Function	Explorer 16/32 Net Name
50	21	DACOUT2/AN16/CMP4C/ISRC2/RA55/PMD8/PMA8/RC7	TC1047A Temp. Sensor	P21_TEMP_RC7
51	24	OA2OUT/AN1/AN7/ANA0/ANA2/ANA3/CMP1D/CMP2D/CMP3D/CMP4D/CMP5D/CMP6D/RA34/SCL3/INT0/RB2	mikroBUS™ B Analog	P24_ANB_RB2
52	79	RE8	EEPROM CS	P79_EECS_RE8
53	77	RP90/RF10	General Purpose I/O	P77_RF10
54	8	PGD2/OA2IN-/AN8/CMP4A/RA35/RB3	General Purpose I/O	P8_RB3
55	29	RE9	General Purpose I/O	P29_RE9
56	—	RP91/RF11	—	—
57	9	PGC2/OA2IN+/RP36/RB4	General Purpose I/O	P9_RB4
58	55	RP56/ASDA1/SCK2/RC8	mikroBUS B SCKB	P55_SCKB_RC8
59	54	RP57/ASCL1/SDI2/RC9	mikroBUS B MISO	P54_MISOB_RC9
60	—	RP92/RD12	—	—
61	80	RP73/PCI20/RD9	Switch S4	P80_S4_RD9
62	53	RP72/SDO2/PCI19/RD8	mikroBUS B MOSI	P53_MOSIB_RD8
63	15, 31, 36, 45, 65, 75	Vss	Vss	VSS
64	2, 16, 30, 37, 46, 62	Vdd	Vdd	VDD_PIM
65	89	RP71/PMD15/RD7	USB D- to Type-C/A	P89_USBDN_RD7
66	11	RP70/PMD14/RD6	EEPROM (MSDI) and mikroBUS A MISO	P11_ISOA_RD6
67	90	RP69/PMA15/PMCS2/RD5	USB D+ to Type-C/A	P90_USBDP_RD5
68	27	PGD3/RA37/SDA2/PMA14/PMCS1/PSCS/RB5	ICSP™ PGD	P27_PGD_RB5
69	26	PGC3/RA38/SCL2/RB6	ICSP™ PGC	P26_PGC_RB6
70	81	RE10	LCD E	P81_LCD_E_RE10
71	82	RP93/APWM4H/RF13	General Purpose I/O	P82_LCDRW_RF13
72	23	TD0/AN2/AN30/CMP3A/RA39/SDA3/RB7	mikroBUS B Chip Select	P23_CSB_RB7
73	44	APWM4L/RE11	LCD RS	P44_LCDRS_RE11
74	93	RP94/APWM3H/RF14	General Purpose I/O	P93_LCDDD_RF14
75	57	PGD1/AN10/CMP6A/RA40/SCL1/RB8	Shared I ² C SCL	P57_SCL_RB8
76	94	RP95/APWM3L/RF15	General Purpose I/O	P94_LCDDD1_RF15
77	56	PGC1/AN11/CMP5A/RA41/SDA1/RB9	Shared I ² C SDA	P56_SDA_RB9
78	100	APWM2H/RE12	LCD D4	P100_LCDDD4_RE12
79	97	RP96/APWM2L/RA5	General Purpose I/O	P97_RA5
80	78	RP52/PWM5H/ASDA2/RC4	mikroBUS B PWM	P78_PWM5B_RC4
81	3	RE13	LCD D5	P3_LCDDD5_RE13
82	69	RP53/PWM5L/ASCL2/PMWR/PMENB/PSWR/RC5	General Purpose I/O	P69_RC5
83	49	RP58/PWM7H/PMRD/PMWR/PSRD/RC10	MCP2221A and mikroBUS B RX	P49_RXB_RC10
84	50	RP59/PWM7L/RC11	MCP2221A and mikroBUS B TX	P50_TXB_RC11
85	95	RP68/ASDA3/RD4	mikroBUS A Reset Pin	P95_RSTA_RD4
86	14	RP67/ASCL3/RD3	mikroBUS A Chip Select	P14_CSA_RD3
87	15, 31, 36, 45, 65, 75	Vss	Vss	VSS
88	2, 16, 30, 37, 46, 62	Vdd	Vdd	VDD_PIM
89	67	RP66/RD2	mikroBUS A Interrupt (digital)	P67_INTA_RD2
90	51	RP65/PWM4H/RD1	mikroBUS A TX	P51_TXA_RD1
91	52	RP64/PWM4L/PMD0/RD0	mikroBUS A RX	P52_RXA_RD0
92	39	TMS/RA42/PWM3H/PMD1/RB10	General Purpose I/O	P39_RB10
93	40	TCK/RA43/PWM3L/PMD2/RB11	General Purpose I/O	P40_RB11
94	4	RE14	LCD D6	P4_LCDDD6_RE14
95	98	RP97/APWM1H/RA6	General Purpose I/O	P98_LCDDD2_RA6
96	99	RP98/APWM1L/RA7	General Purpose I/O	P99_LCDDD3_RA7
97	66	TDI/RA44/PWM2H/PMD3/RB12	General Purpose I/O	P66_RB12
98	5	RE15	LCD D7	P5_LCDDD7_RE15
99	—	RP99/RA8	—	—
100	18	RP45/PWM2L/PMD4/RB13	mikroBUS B Interrupt	P18_INTB_RB13

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Schematic Revision 1.0



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