

Mapping Summary

Pin	Pin Name	Comment	RSEDP Name
1	Not connected	Not connected	Not connected
2	Not connected	Not connected	Not connected
3	P20.12/#RSTOUT		#RESOUT
4	#NMI	local pull up	local pull up
5	Vssp		SGND
6	Vddp		5.0V
7	P6.0/#CS0/CC0IO		#CS0
8	P6.1/#CS1/CC1IO	2 hard wired	#CS1
		2 hard wired	EVG8_GPIO56
9	P6.2/#CS2/CC2IO	2 hard wired	#CS2
		2 hard wired	EVG10_GPIO58
10	P6.3/#CS3/CC3IO	2 hard wired	#CS3
		2 hard wired	EVG12_GPIO60
11	P6.4/#CS4/CC4IO		EVG14_GPIO62
12	P6.5/#HOLD/CC5IO	2 hard wired	EVG16_GPIO64
		2 hard wired	GPIO11_I2S_RX_SDA
13	P6.6/#HLDA/CC6IO	2 hard wired	EVG18_GPIO66
		2 hard wired	GPIO13_I2S_TX_CLK
14	P6.7/#BREQ/CC7IO		GPIO15_I2S_TX_SDA
15	P7.4/CC28IO/C		EVM5_GPIO47
16	P7.5/CC29IO/C		EVM4_GPIO45
17	P7.6/CC30IO/C		EVM3_GPIO43
18	P7.7/CC31IO/C		EVM2_GPIO41_CAPADC
19	Vssp		SGND
20	Vddp		5.0V
21	P9.0/SDA0/CC16IO/C		EVG15_GPIO63
22	P9.1/SCL0/CC17IO/C		EVG13_GPIO61
23	P9.2/SDA1/CC18IO/C	2 hard wired	I2C_GEN0_SDA
		2 hard wired	EVG11_GPIO59
24	P9.3/SCL1/CC19IO/C	2 hard wired	I2C_GEN0_SCL
		2 hard wired	EVG9_GPIO57
25	P9.4/SDA2/CC20IO	2 hard wired	CNTRL_I2C_SDA
		2 hard wired	CPU_DAC00_GPIO17
26	P9.5/SCL2/CC21IO	2 hard wired	CNTRL_I2C_SCL
		2 hard wired	CPU_DAC01_GPIO19
27	Vssp		SGND
28	Vddp		5.0V
29	P5.0/AN0		AN0
30	P5.1/AN1		AN1
31	P5.2/AN2		AN2
32	P5.3/AN3		AN3
33	P5.4/AN4		AN4
34	P5.5/AN5		AN5
35	P5.10/AN10/T6EUD		AN10
36	P5.11/AN11/T5EUD		AN11
37	P5.8/AN8		AN8
38	P5.9/AN9		AN9
39	P5.6/AN6		AN6
40	P5.7/AN7		AN7
41	Varef	2 link options	AN_REF
		2 link options	local 5V
42	Vagnd	hard wired	VAGND
		link option	SGND
43	P5.12/AN12/T6IN		AN12
44	P5.13/AN13/T5IN		AN13
45	P5.14/AN14/T4EUD		AN14
46	P5.15/AN15/T2EUD		AN15
47	Vssi		SGND

Resources Used/Available
5.0V
AN_REF
#RESIN
#RESOUT
SGND
VAGND
AN0
AN1
AN2
AN3
AN4
AN5
AN6
AN7
AN8
AN9
AN10
AN11
AN12
AN13
AN14
AN15
ASCO_RX_TTL
ASCO_TX_TTL
ASC1_RX_TTL
ASC1_TX_TTL
ASC1_RX_TTL_ASC0_DSR
CAN0_RX
CAN0_TX
CAN1_RX
CAN1_TX
CANHO
CANLO
CNTRL_SPI_#CS_NSS
CNTRL_SPI_CLK
CNTRL_SPI_MRST
CNTRL_SPI_MTSR
CPU_DAC00_GPIO17
CPU_DAC01_GPIO19
SPI_SSC_#CS_NSS
SPI_SSC_CLK
SPI_SSC_MRST_MISO
SPI_SSC_MTSR_MOSI
EVG0_GPIO40
EVG1_GPIO42
EVG2_GPIO44
EVG3_GPIO46
EVG4_GPIO48
EVG5_GPIO50
EVG6_GPIO52
EVG7_GPIO54
EVG8_GPIO56
EVG9_GPIO57
EVG10_GPIO58
EVG11_GPIO59
EVG12_GPIO60
EVG13_GPIO61
EVG14_GPIO62

48	Vddi	local Vreg	local Vreg
49	P2.8/CC8IO/EX0IN		EVG0_GPIO40
50	P2.9/CC9IO/EX1IN		EVG1_GPIO42
51	P2.10/CC10IO/EX2IN		EVG2_GPIO44
52	P2.11/CC11IO/EX3IN		EVG3_GPIO46
53	P2.12/CC12IO/EX4IN		EVG4_GPIO48
54	P2.13/CC13IO/EX5IN		EVG5_GPIO50
55	P2.14/CC14IO/EX6IN	2 hard wired	EVG6_GPIO52
		2 hard wired	EVG19_GPIO67
56	P2.15/CC15IO/EX7IN/T7IN	2 hard wired	EVG7_GPIO54
		2 hard wired	EVG17_GPIO65
57	#TRST	JTAG	local JTAG
58	Vddp		5.0V
59	P3.0/T0IN/TxD1/E	2 link options	ASC1_TX_TTL
		2 link options	local Virtual Comms
60	P3.1/T6OUT/RxD1/E	2 link options	ASC1_RX_TTL
		2 link options	local Virtual Comms
61	P3.2/CAPIN	2 hard wired	IRQ_GPIO16_CNTRL_I2C_INT
		2 hard wired	MOTOR_TCO_FB
62	P3.3/T3OUT		GPIO4_MCI_DAT1
63	P3.4/T3EUD		GPIO6_MCI_DAT2
64	P3.5/T4IN	2 hard wired	IRQ_GPIO18_I2C_GEN0_INT
		2 hard wired	GPIO5_I2S_TX_WS
65	P3.6/T3IN	2 hard wired	IRQ_GPIO20_I2C_GEN1_INT
		2 hard wired	GPIO7_I2S_RX_CLK
66	P3.7/T2IN	2 hard wired	IRQ_GPIO22_I2C_INT
		2 hard wired	GPIO9_I2S_RX_WS
67	P3.8/MRST0		CNTRL_SPI_MRST
68	P3.9/MTSRO		CNTRL_SPI_MTSR
69	P3.10/TxD0/E		ASC0_TX_TTL
70	P3.11/RxD0/E		ASC0_RX_TTL
71	TCK	JTAG	local JTAG
72	TDI	JTAG	local JTAG
73	TDO	JTAG	local JTAG
74	TMS	JTAG	local JTAG
75	P3.12/#BHE/#WRH/E		#WRH
76	P3.13/SCLK0/E		CNTRL_SPI_CLK
77	P3.15/CLKOUT/FOUT		GPIO12_MCI_CMD
78	Vddi	local Vreg	local Vreg
79	Vssi		SGND
80	P4.0/A16		GPIO1
81	P4.1/A17		GPIO3
82	P4.2/A18		CNTRL_SPI_#CS_NSS
83	P4.3/A19	2 hard wired	SPI_SSC_#CS_NSS
		2 hard wired	GPIO14_MCI_PWR
84	P4.4/A20/C	2 link options	CAN0_RX
		2 link options (local C	CANH0
85	P4.5/A21/C		CAN1_RX
86	P4.6/A22/C		CAN1_TX
87	P4.7/A23/C	2 link options	CAN0_TX
		2 link options (local C	CANL0
88	Vddp		5.0V
89	Vssp		SGND
90	P20.0/#RD		#RD
91	P20.1/#WR/#WRL		#WR
92	P20.2/READY	2 hard wired	ASC1_RX_TTL_ASC0_DSR
		2 hard wired	GPIO0
93	P20.4/ALE		ALE
94	P20.5/#EA	local SW400	local DIP switch
95	POL.0/AD0	2 link options	A0_AD0
		2 link options	GPIO38_AD0
96	POL.1/AD1	2 link options	A1_AD1
		2 link options	GPIO36_AD1

EVG15_GPIO63
EVG16_GPIO64
EVG17_GPIO65
EVG18_GPIO66
EVG19_GPIO67
EVG20_GPIO69_ASC0_RTS
EVM0_GPIO21
EVM1_GPIO23
EVM2_GPIO41_CAPADC
EVM3_GPIO43
EVM4_GPIO45
EVM5_GPIO47
EVM6_GPIO49
EVM7_GPIO51
EVM8_GPIO53
EVM9_GPIO55
EVM10_GPIO68_ASC0_CTS
GPIO0
GPIO1
GPIO2_MCI_DAT0
GPIO3
GPIO4_MCI_DAT1
GPIO5_I2S_TX_WS
GPIO6_MCI_DAT2
GPIO7_I2S_RX_CLK
GPIO8_MCI_DAT3
GPIO9_I2S_RX_WS
GPIO10_MCI_CLK
GPIO11_I2S_RX_SDA
GPIO12_MCI_CMD
GPIO13_I2S_TX_CLK
GPIO14_MCI_PWR
GPIO15_I2S_TX_SDA
GPIO24_AD7
GPIO25_AD15
GPIO26_AD6
GPIO27_AD14
GPIO28_AD5
GPIO29_AD13
GPIO30_AD4
GPIO31_AD12
GPIO32_AD3
GPIO33_AD11
GPIO34_AD2
GPIO35_AD10
GPIO36_AD1
GPIO37_AD9
GPIO38_AD0
GPIO39_AD8
MOTORPOH
MOTORPOL
MOTORP1H
MOTORP1L
MOTORP2H
MOTORP2L
MOTORH0_ENCO
MOTORH1_ENC1
MOTORH2_ENC2
MOTOR_TCO_FB
MOTORPWM
EMG_TRAP
CNTRL_I2C_SCL
CNTRL_I2C_SDA

97	P0L.2/AD2	2 link options	A2_AD2
		2 link options	GPIO34_AD2
98	P0L.3/AD3	2 link options	A3_AD3
		2 link options	GPIO32_AD3
99	P0L.4/AD4	2 link options	A4_AD4
		2 link options	GPIO30_AD4
100	P0L.5/AD5	2 link options	A5_AD5
		2 link options	GPIO28_AD5
101	P0L.6/AD6	2 link options	A6_AD6
		2 link options	GPIO26_AD6
102	P0L.7/AD7	2 link options	A7_AD7
		2 link options	GPIO24_AD7
103	Vddp		5.0V
104	Vssp		SGND
105	P0H.0/AD8	2 link options	A8_AD8
		2 link options	GPIO39_AD8
106	P0H.1/AD9	2 link options	A9_AD9
		2 link options	GPIO37_AD9
107	Not connected	Not connected	Not connected
108	Not connected	Not connected	Not connected
109	Not connected	Not connected	Not connected
110	Not connected	Not connected	Not connected
111	P0H.2/AD10	2 link options	A10_AD10
		2 link options	GPIO35_AD10
112	P0H.3/AD11	2 link options	A11_AD11
		2 link options	GPIO33_AD11
113	P0H.4/AD12	2 link options	A12_AD12
		2 link options	GPIO31_AD12
114	P0H.5/AD13	2 link options	A13_AD13
		2 link options	GPIO29_AD13
115	P0H.6/AD14	2 link options	A14_AD14
		2 link options	GPIO27_AD14
116	P0H.7/AD15	2 link options	A15_AD15
		2 link options	GPIO25_AD15
117	P1L.0/A0/CC60		MOTORP0L
118	P1L.1/A1/COUT60		MOTORP0H
119	P1L.2/A2/CC61		MOTORP1L
120	P1L.3/A3/COUT61		MOTORP1H
121	P1L.4/A4/CC62	2 hard wired	MOTORP2L
		2 hard wired	EVG20_GPIO69_ASCO_RTS
122	P1L.5/A5/COUT62		MOTORP2H
123	P1L.6/A6/COUT63		MOTORPWM
124	P1L.7/AD7/#CTRAP/CC22IO	3 hard wired	EMG_TRAP
		3 hard wired	EVM10_GPIO68_ASCO_CTS
		3 hard wired	EVM1_GPIO23
125	Vddp		5.0V
126	Vssp		SGND
127	P1H.0/A8/#CC6POS0/CC23IO/E	2 hard wired	EVM0_GPIO21
		2 hard wired	MOTORH0_ENC0
128	P1H.1/A9/#CC6POS1/MRST1	3 hard wired	SPI_SSC_MRST_MISO
		3 hard wired	MOTORH1_ENC1
		3 hard wired	GPIO2_MCI_DAT0
129	P1H.2/A10/#CC6POS2/MTSR1	3 hard wired	SPI_SSC_MTSR_MOSI
		3 hard wired	MOTORH2_ENC2
		3 hard wired	GPIO8_MCI_DAT3
130	P1H.3/A11/SCLK1/E	2 hard wired	SPI_SSC_CLK
		2 hard wired	GPIO10_MCI_CLK
131	P1H.4/A12/CC24IO		EVM9_GPIO55
132	P1H.5/A13/CC25IO		EVM8_GPIO53
133	P1H.6/A14/CC26IO		EVM7_GPIO51
134	P1H.7/A15/CC27IO		EVM6_GPIO49
135	Vddi	local Vreg	local Vreg
136	Vssi		SGND

I2C_GEN0_SCL
I2C_GEN0_SDA
IRQ_GPIO16_CNTRL_I2C_INT
IRQ_GPIO18_I2C_GEN0_INT
IRQ_GPIO20_I2C_GEN1_INT
IRQ_GPIO22_I2C_INT
#CS0
#CS1
#CS2
#CS3
#RD
#WR
#WRH
ALE
A0_AD0
A1_AD1
A2_AD2
A3_AD3
A4_AD4
A5_AD5
A6_AD6
A7_AD7
A8_AD8
A9_AD9
A10_AD10
A11_AD11
A12_AD12
A13_AD13
A14_AD14
A15_AD15

137	XTAL2	local Xtal	local Xtal
138	XTAL1	local Xtal	local Xtal
139	Vssi		SGND
140	XTAL3	local 32KHz	local 32KHz
141	XTAL4	local 32KHz	local 32KHz
142	#RSTIN		#RESIN
143	#BRKOUT	JTAG	local JTAG
144	#BRKIN	JTAG	local JTAG

Pin	Alphabetic Listing of MCU Pins
144	#BRKIN
143	#BRKOUT
4	#NMI
142	#RSTIN
57	#TRST
1	Not connected
2	Not connected
107	Not connected
108	Not connected
109	Not connected
110	Not connected
105	P0H.0/AD8
106	P0H.1/AD9
111	P0H.2/AD10
112	P0H.3/AD11
113	P0H.4/AD12
114	P0H.5/AD13
115	P0H.6/AD14
116	P0H.7/AD15
95	P0L.0/AD0
96	P0L.1/AD1
97	P0L.2/AD2
98	P0L.3/AD3
99	P0L.4/AD4
100	P0L.5/AD5
101	P0L.6/AD6
102	P0L.7/AD7
127	P1H.0/A8/#CC6POS0/CC23IO/E
128	P1H.1/A9/#CC6POS1/MRST1
129	P1H.2/A10/#CC6POS2/MTSR1
130	P1H.3/A11/SCLK1/E
131	P1H.4/A12/CC24IO
132	P1H.5/A13/CC25IO
133	P1H.6/A14/CC26IO
134	P1H.7/A15/CC27IO
117	P1L.0/A0/CC60
118	P1L.1/A1/COU60
119	P1L.2/A2/CC61
120	P1L.3/A3/COU61
121	P1L.4/A4/CC62
122	P1L.5/A5/COU62
123	P1L.6/A6/COU63
124	P1L.7/AD7/#CTRAP/CC22IO
49	P2.8/CC8IO/EX0IN
50	P2.9/CC9IO/EX1IN
51	P2.10/CC10IO/EX2IN
52	P2.11/CC11IO/EX3IN
53	P2.12/CC12IO/EX4IN
54	P2.13/CC13IO/EX5IN
55	P2.14/CC14IO/EX6IN
56	P2.15/CC15IO/EX7IN/T7IN
90	P20.0/#RD
91	P20.1/#WR/#WRL
92	P20.2/READY
93	P20.4/ALE
94	P20.5/#EA
3	P20.12/#RSTOUT
59	P3.0/T0IN/TxD1/E

60	P3.1/T6OUT/RxD1/E
61	P3.2/CAPIN
62	P3.3/T3OUT
63	P3.4/T3EUD
64	P3.5/T4IN
65	P3.6/T3IN
66	P3.7/T2IN
67	P3.8/MRSTO
68	P3.9/MTSRO
69	P3.10/TxD0/E
70	P3.11/RxD0/E
75	P3.12/#BHE/#WRH/E
76	P3.13/SCLK0/E
77	P3.15/CLKOUT/FOUT
80	P4.0/A16
81	P4.1/A17
82	P4.2/A18
83	P4.3/A19
84	P4.4/A20/C
85	P4.5/A21/C
86	P4.6/A22/C
87	P4.7/A23/C
29	P5.0/AN0
30	P5.1/AN1
31	P5.2/AN2
32	P5.3/AN3
33	P5.4/AN4
34	P5.5/AN5
39	P5.6/AN6
40	P5.7/AN7
37	P5.8/AN8
38	P5.9/AN9
35	P5.10/AN10/T6EUD
36	P5.11/AN11/T5EUD
43	P5.12/AN12/T6IN
44	P5.13/AN13/T5IN
45	P5.14/AN14/T4EUD
46	P5.15/AN15/T2EUD
7	P6.0/#CS0/CC0IO
8	P6.1/#CS1/CC1IO
9	P6.2/#CS2/CC2IO
10	P6.3/#CS3/CC3IO
11	P6.4/#CS4/CC4IO
12	P6.5/#HOLD/CC5IO
13	P6.6/#HLDA/CC6IO
14	P6.7/#BREQ/CC7IO
15	P7.4/CC28IO/C
16	P7.5/CC29IO/C
17	P7.6/CC30IO/C
18	P7.7/CC31IO/C
21	P9.0/SDA0/CC16IO/C
22	P9.1/SCL0/CC17IO/C
23	P9.2/SDA1/CC18IO/C
24	P9.3/SCL1/CC19IO/C
25	P9.4/SDA2/CC20IO
26	P9.5/SCL2/CC21IO
71	TCK
72	TDI
73	TDO
74	TMS
42	Vagnd
41	Varef
48	Vddi

78	Vddi
135	Vddi
6	Vddp
20	Vddp
28	Vddp
58	Vddp
88	Vddp
103	Vddp
125	Vddp
47	Vssi
79	Vssi
136	Vssi
139	Vssi
5	Vssp
19	Vssp
27	Vssp
89	Vssp
104	Vssp
126	Vssp
138	XTAL1
137	XTAL2
140	XTAL3
141	XTAL4