

PartNo/Pin	1	2	3	4	5	6	7
TSW1	VCC	SIN3.11 R17.1	SIN3.6 R18.1	SIN3.5 R19.1	SIN3.4 R20.1	SIN3.3 R21.1	nan
TSW2	VCC	SIN4.5 R27.1	SIN4.6 R26.1	SIN4.11 R25.1	SIN4.12 R24.1	SIN4.13 R23.1	SIN4.14 R22.1

PartNo/Pin	1	2	3	4
I2CEX	GND	VCC	M1.10	M1.9

PartNo/Pin	1	2	3	4
LCD1	GND	VCC	M1.12	M1.11
LCD2	GND	VCC	M1.14	M1.13
LCD3	GND	VCC	M1.16	M1.15
LCD4	GND	VCC	M1.18	M1.17
LCD5	GND	VCC	M1.20	M1.19
LCD6	GND	VCC	M1.22	M1.21
LCD7	GND	VCC	M1.24	M1.23

PartNo/Pin	1	2
CI1	GND	VCC
CI2	GND	VCC
CI3	GND	VCC
CI4	GND	VCC
CI5	GND	VCC
CI6	GND	VCC
CI7	VCC	GND
CI8	VCC	GND
CI9	VCC	GND

PartNo/Pin	1	2	3
TOG1	SIN2.11 R9.1	VCC	SIN2.12 R8.1
TOG2	SIN2.6 R10.1	VCC	SIN2.5 R11.1

PartNo/Pin	1	2	3	4	5	6	7
RE1	ARD1.16	ARD1.15	VCC	GND	SIN6.3	SIN6.4	nan
RE2	ARD1.14	ARD1.13	VCC	GND	SIN6.11	SIN6.6	SIN6.5
RE3	ARD1.12	ARD1.11	VCC	GND	SIN5.6	SIN5.5	nan
RE4	ARD1.10	ARD1.9	VCC	GND	SIN5.11	SIN5.12	nan
RE5	ARD1.8	ARD1.7	VCC	GND	SIN1.3	SIN1.4	SIN1.5

PartNo/Pin	1	2
BT1	VCC	SIN1.6 R5.1
BT2	VCC	SIN4.4 R28.1
BT3	VCC	SIN5.13 R31.1
BT4	VCC	SIN6.12 R36.1

PartNo/Pin	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
SIN1	SIN6.1 ARD1.3 SIN2.1 SIN3.1 SIN4.1 SIN5.1	SIN6.2 ARD1.2 SIN2.2 SIN3.2 SIN4.2 SIN5.2	RE5.5	RE5.6	RE5.7	BT1.2 R5.1	nan	GND	ARD1.1	SIN2.9	K4.5 R4.1	K3.5 R3.1	K2.5 R2.1	K1.5 R1.1	GND	VCC
SIN2	SIN6.1 SIN1.1 ARD1.3 SIN3.1 SIN4.1 SIN5.1	SIN1.2 SIN6.2 ARD1.2 SIN3.2 SIN4.2 SIN5.2	K8.5 R13.1	K7.5 R12.1	TOG2.3 R11.1	TOG2.1 R10.1	nan	GND	SIN1.10	SIN3.9	TOG1.1 R9.1	TOG1.3 R8.1	K6.5 R7.1	K5.5 R6.1	GND	VCC
SIN3	SIN6.1 SIN1.1 ARD1.3 SIN2.1 SIN4.1 SIN5.1	SIN1.2 SIN6.2 ARD1.2 SIN2.2 SIN4.2 SIN5.2	TSW1.6 R21.1	TSW1.5 R20.1	TSW1.4 R19.1	TSW1.3 R18.1	nan	GND	SIN2.10	SIN4.9	TSW1.2 R17.1	K11.5 R16.1	K10.5 R15.1	K9.5 R14.1	GND	VCC
SIN4	SIN6.1 SIN1.1 ARD1.3 SIN2.1 SIN3.1 SIN5.1	SIN1.2 SIN6.2 ARD1.2 SIN2.2 SIN3.2 SIN5.2	K12.5 R29.1	BT2.2 R28.1	TSW2.2 R27.1	TSW2.3 R26.1	nan	GND	SIN3.10	SIN5.9	TSW2.4 R25.1	TSW2.5 R24.1	TSW2.6 R23.1	TSW2.7 R22.1	GND	VCC
SIN5	SIN6.1 SIN1.1 ARD1.3 SIN2.1 SIN3.1 SIN4.1	SIN1.2 SIN6.2 ARD1.2 SIN2.2 SIN3.2 SIN4.2	K15.5 R33.1	K14.5 R32.1	RE3.6	RE3.5	nan	GND	SIN4.10	SIN6.9	RE4.5	RE4.6	BT3.2 R31.1	K13.5 R30.1	GND	VCC
SIN6	SIN1.1 ARD1.3 SIN2.1 SIN3.1 SIN4.1 SIN5.1	SIN1.2 ARD1.2 SIN2.2 SIN3.2 SIN4.2 SIN5.2	RE1.5	RE1.6	RE2.7	RE2.6	nan	GND	SIN5.10	nan	RE2.5	BT4.2 R36.1	K17.5 R35.1	K16.5 R34.1	GND	VCC

PartNo/Pin	1	2	3	4	5
K1	SO1.4 K1.2	SO1.4 K1.1	VCC	VCC	SIN1.14 R1.1
K2	K2.2 SO1.5	SO1.5 K2.1	VCC	VCC	SIN1.13 R2.1
K3	K3.2 SO1.6	SO1.6 K3.1	VCC	VCC	SIN1.12 R3.1
K4	SO1.7	SO1.14	VCC	VCC	SIN1.11 R4.1
K5	SO1.15	SO1.16 K6.2	VCC	VCC	SIN2.14 R6.1
K6	SO1.17	K5.2 SO1.16	VCC	VCC	SIN2.13 R7.1
K7	SO2.5	K8.2 SO2.4	VCC	VCC	SIN2.4 R12.1
K8	SO2.6	SO2.4 K7.2	VCC	VCC	SIN2.3 R13.1
K9	SO2.7	K10.2 SO2.14	VCC	VCC	SIN3.14 R14.1
K10	SO2.15	K9.2 SO2.14	VCC	VCC	SIN3.13 R15.1
K11	SO2.16	SO2.17	VCC	VCC	SIN3.12 R16.1
K12	SO3.4	SO3.6 K13.2	VCC	VCC	SIN4.3 R29.1
K13	SO3.5	K12.2 SO3.6	VCC	VCC	SIN5.14 R30.1
K14	SO3.7	K16.2 K17.2 K15.2 SO3.14	VCC	VCC	SIN5.4 R32.1
K15	SO3.15	K14.2 K16.2 K17.2 SO3.14	VCC	VCC	SIN5.3 R33.1
K16	SO3.16	K14.2 K17.2 K15.2 SO3.14	VCC	VCC	SIN6.14 R34.1
K17	SO3.17	K14.2 K16.2 K15.2 SO3.14	VCC	VCC	SIN6.13 R35.1

PartNo/Pin	1	2
R1	SIN1.14 K1.5	GND
R2	SIN1.13 K2.5	GND
R3	SIN1.12 K3.5	GND
R4	K4.5 SIN1.11	GND
R5	SIN1.6 BT1.2	GND
R6	SIN2.14 K5.5	GND
R7	SIN2.13 K6.5	GND
R8	SIN2.12 TOG1.3	GND
R9	SIN2.11 TOG1.1	GND
R10	SIN2.6 TOG2.1	GND
R11	TOG2.3 SIN2.5	GND
R12	SIN2.4 K7.5	GND
R13	SIN2.3 K8.5	GND
R14	SIN3.14 K9.5	GND
R15	SIN3.13 K10.5	GND
R16	SIN3.12 K11.5	GND
R17	SIN3.11 TSW1.2	GND
R18	SIN3.6 TSW1.3	GND
R19	SIN3.5 TSW1.4	GND
R20	SIN3.4 TSW1.5	GND
R21	SIN3.3 TSW1.6	GND
R22	SIN4.14 TSW2.7	GND
R23	SIN4.13 TSW2.6	GND
R24	TSW2.5 SIN4.12	GND
R25	TSW2.4 SIN4.11	GND
R26	SIN4.6 TSW2.3	GND
R27	SIN4.5 TSW2.2	GND
R28	SIN4.4 BT2.2	GND
R29	SIN4.3 K12.5	GND
R30	SIN5.14 K13.5	GND
R31	BT3.2 SIN5.13	GND
R32	SIN5.4 K14.5	GND
R33	SIN5.3 K15.5	GND
R34	SIN6.14 K16.5	GND
R35	K17.5 SIN6.13	GND
R36	SIN6.12 BT4.2	GND
R37	M1.5	VCC

PartNo/Pin	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
SO1	nan	VCC	ARD1.4	K1.2 K1.1	K2.2 K2.1	K3.2 K3.1	K4.1	VCC	GND	GND	GND	SO3.12 ARD1.6 SO2.12	SO3.13 ARD1.5 SO2.13	K4.2	K5.1	K5.2 K6.2	K6.1	SO2.3	GND
SO2	nan	VCC	SO1.18	K8.2 K7.2	K7.1	K8.1	K9.1	VCC	GND	GND	GND	SO3.12 SO1.12 ARD1.6	SO3.13 SO1.13 ARD1.5	K10.2 K9.2	K10.1	K11.1	K11.2	SO3.3	GND
SO3	nan	VCC	SO2.18	K12.1	K13.1	K12.2 K13.2	K14.1	VCC	GND	GND	GND	SO1.12 ARD1.6 SO2.12	SO1.13 ARD1.5 SO2.13	K14.2 K16.2 K17.2 K15.2	K15.1	K16.1	K17.1	nan	GND

PartNo/Pin	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ARD1	SIN1.9	SIN1.2 SIN6.2 SIN2.2 SIN3.2 SIN4.2 SIN5.2	SIN6.1 SIN1.1 SIN2.1 SIN3.1 SIN4.1 SIN5.1	SO1.3	SO3.13 SO1.13 SO2.13	SO3.12 SO1.12 SO2.12	RE5.2	RE5.1	RE4.2	RE4.1	RE3.2	RE3.1	RE2.2	RE2.1	RE1.2	RE1.1	M1.4	M1.3	GND	VCC

PartNo/Pin	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
M1	VCC	GND	ARD1.18	ARD1.17	R37.1	GND	GND	GND	I2CEX.4	I2CEX.3	LCD1.4	LCD1.3	LCD2.4	LCD2.3	LCD3.4	LCD3.3	LCD4.4	LCD4.3	LCD5.4	LCD5.3	LCD6.4	LCD6.3	LCD7.4	LCD7.3