

# Bill of Materials

# MIC7400/1 Programming Board

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Part Number: ADM00760  
Revision: 2  
Engineer: Catalin Bibirica  
Drawn By: Catalin Bibirica



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Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
1	ACT1	MECH HW KNOB WE-714287050 BLUE	WURTH ELEKTRONIK	714287050	Farnell	2134447
1	BT1	BATT HOLDER Retainer SMD CR2016, CR2020, CR2025, CR2032	Keystone	3002TR	Digi-Key	36-3002CT-ND
2	C1, C2	CAP CER 10uF 16V 20% X5R SMD 0805	TDK	C2012X5R1C106M/0.85	Digi-Key	445-7645-1-ND
2	C3, C4	CAP CER 100pF 50V 1% C0G SMD 0603	TDK	C1608C0G1H101F	Digi-Key	445-5368-1-ND
1	D1	DIO SCTKY B0520WS 430mV 500mA 20V SOD-323	Diodes Incorporated	B0520WS-7-F	Digi-Key	B0520WS-FDICT-ND
1	J1	CON HDR-2.54 Male 1x6 Gold 5.84MH SMD R/A	Sullins	GBC06SBSN-M89	Digi-Key	S1133E-06-ND
1	J2	CON HDR-2.54 Female 1x4 Gold TH R/A	Samtec Inc	SSW-104-02-G-S-RA	Digi-Key	SAM1225-04-ND
2	J3, J5	CON TP LOOP Tin SMD	Harwin Inc	S1751-46R	Digi-Key	952-1478-1-ND
1	J4	CON USB2.0 MICRO-B FEMALE SMD R/A	FCI	10118192-0001LF	Digi-Key	609-4613-1-ND
1	J7	CON HDR-2.54 Male 1x2 Tin 6.10MH TH VERT	Molex Inc	0022284020	Digi-Key	WM50014-02-ND
1	L1	INDUCTOR 4.7uH 230mOhm 20% 0805	Taiyo Yuden	587-2773-1-ND	Digi-Key	587-2773-1-ND
1	LCD1	DISPLAY LCD MCOG21605C6W-FPTLWI 16x2 Alpha 3V-5V TH	MIDAS	MCOG21605C6W-FPTLWI	Farnell	2425756
6	LD1, LD2, LD3, LD4, LD5, LD6	DIO LED GREEN 2V 30mA 35mcd Clear SMD 0603	Lite-On Inc	LTST-C191KGKT	Digi-Key	160-1446-1-ND
4	PAD1, PAD2, PAD3, PAD4	MECH HW RUBBER PAD CYLINDRICAL D7.9 H5.3 BLACK	3M	SJ61A11	Digi-Key	SJ5747-0-ND
1	Q1	TRANS FET DUAL N-CH 2N7002DW-7-F 60V 230mA 310mW SOT-363	Diodes Incorporated	2N7002DW-7-F	Digi-Key	2N7002DW-FDITR-ND
14	R1, R2, R3, R4, R5, R6, R9, R10, R13, R14, R15, R17, R20, R21	RES TKF 10k 5% 1/10W SMD 0603	Panasonic	ERJ-3GEYJ103V	Digi-Key	P10KGCT-ND
2	R7, R8	RES TF 4.7k 0.5% 1/10W SMD 0603	Yageo	RT0603DRD074K7L	Digi-Key	311-4.7KDCT-ND
2	R11, R12	RES TRIMMER Cermet 10k 10% 500mW TH 3386F	Bourns	3386F-1-103TLF	Digi-Key	3386F-103TLF-ND
1	R16	RES TKF 3.09M 1% 1/10W SMD 0603	Vishay Dale	CRCW06033M09FKEA	Digi-Key	541-3.09MHCT-ND
1	R19	RES TKF 1.1M 1% 1/10W SMD 0603	Vishay Dale	CRCW06031M10FKEA	Digi-Key	541-1.10MHCT-ND
1	R19	RES TKF 1M 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1004V	Digi-Key	P1.00MHCT-ND

2	SW1, SW2	SWITCH TACT SPST 24V 50mA KSR231GLFS SMD 6X3.5mm	TE Connectivity Alcoswitch Switches	147873-2	Digi-Key	450-2049-1-ND
1	SW3	SWITCH ROTARY Octal 24V 150mA 428527520908 TH	Wurth Electronics Inc	428527520908	Digi-Key	428527520908-ND
2	SW4, SW5	SWITCH DIP SPST 24V 25mA 418121270801 SMD	OMRON	A6S-1104-H	Digi-Key	Z5187-ND

**Microchip Parts listed below**

1	U1	MCHP MCU 8-BIT 20MHz 14kB 512B PIC16F1509-I/SS SSOP-20	Microchip	PIC16F1509T-I/SS	Microchip	PIC16F1509T-I/SS
1	U2	MCHP ANALOG SWITCHER Boost 2V to 5.5V MCP1624T-I/CHY SOT-23-6	Microchip	MCP1624T-I/CHY	Microchip	MCP1624T-I/CHY
1	U3	MCHP MEMORY SERIAL EEPROM 2k I2C 24LC024T-E/MS MSOP-8	Microchip	24LC024T-E/MS	Microchip	24LC024T-E/MS

**Do Not Populate Parts listed below**

1	R18	RES TKF 1.5k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1501V	Digi-Key	P1.50KHTR-ND
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