

<div> <div>BILL OF MATERIALS</div> <div>MOTOROLA</div> <div>PRINTED WIRING BOARD ASSEMBLY P/N RE11001B</div> <div>Revision A</div> </div>						
ITEM	QTY	REFERENCE	DESCRIPTION	MFGR	PART NUMBER	NOTES
1	1	N/A	BARE PWB ; RE11001F Rev. 1.1 for M5282EVB	Matrix Design & Manuf.	RE11001F Rev. 1.1	
2	40	C1, C3, C4, C5, C6, C17, C31, C32, C33, C35, C37, C38, C39, C40, C47, C48, C57, C59, C60, C64, C65, C69, C71, C75, C78, C80, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C101, C103	0.1uF 25v 0805 X7R Surface Mount Caps	Venkel	C0805X7R250-104KNE	
3	26	C2, C7, C8, C9, C10, C36, C41, C42, C43, C44, C45, C46, C58, C61, C62, C66, C67, C72, C79, C84, C85, C86, C87, C100, C102, C104	1nF 50V COG Surface Mount Caps	Venkel	C0805COG500-102KNE	
4	5	C11, C12, C13, C14, C15	100pF SMT capacitor	Venkel		
5	2	C16, C21	10 uF 16V TANT. SIZE B	Venkel	TA016TCM106KBR	
6	10	C18, C22, C23, C24, C25, C26, C27, C28, C29, C30	68nF SMT capacitor	Venkel		
7	5	C34, C53, C54, C55, C56	470pF 50V COG Surface Mount Caps	Venkel	C0805COG500-471KNE	
8	7	C49, C50, C51, C52, C70, C76, C81	10nF 25V X7R Surface Mount Caps	Venkel	C0805X7R250-103KNE	
9	3	C68, C74, C77	330uF 10V Tant.	AVX	TPSE337K10CLR	
10	1	C73	1000uF 35V	Rubycon		
11	1	C77	4.7uF Tant			
12	2	C83, C82	10pF	Venkel		
14	2	D3, D1	Bicolor LED	Infineon	LSGT670	
15	2	D2, D4	Green LED	Infineon	LGT670	
16	3	D5, D15, D16	Red LED	Infineon	LST670	
17	4	D6, D7, D8, D9	LED	Liteon	LTL-94PURK-TA	
18	3	D10, D12, D13	SMT Schottky Power Diodes	ON-SEMI	MBRS340T3	
19	2	D14, D11	LED	Liteon	LTL-94PGK-TA	
20	1	F1	5A Fast blow fuse	Multicomp	MCHTE-15M	
21	5	JP16, JP17, JP18, JP19, JP23	3-way jumper	Harwin	M22-2010305	
22	30	JP1, JP2, JP3, JP4, JP5, JP7, JP8, JP9, JP10, JP11, JP12, JP13, JP14, JP15, JP20, JP21, JP22, JP25, JP26, JP27, JP28, JP29, JP30, JP31, JP32, JP33, JP34, JP35, JP36, JP37	2-way jumper	Harwin	M22-2010205	
23	1	JP6	2x2 Jumper	Harwin		
24	1	JP24	2X4 jumper	Harwin		
25	1	J1	RJ45 Connector with Integrated LEDs	Amphenol	RHJS-5381 RJ45	
26	2	J3, J2	120 Way Fine Pitch Surface Mount Connector (Board to Board Stacking)	AMP	177984-5	
27	1	J4	2x13 BDM Connector - Shrouded Headers	3M	2526-6002UB	
28	3	J5, J6, J7	100mil Berg Headers 2x10			A
29	1	J8	External Clock Input SMA connector)	AMP	1053378-1 CON 1 COAX RA SMA	A
30	1	J9	QSPI Connector 1x10 - 2.54mm Pitch Vertical Pin	Harwin	M20-9731006	A
31	1	J10	I2C Molex Conn. 71565	Molex	15-83-0064	A
32	2	L1, L2	25uH Inductor	SIEMENS	B82111-B-C24	

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33	2	L3, L4	25uH Inductor	Central Technologies	CTCB1210-600-HC	
34	3	P1, P4, P5	DB9 RS232 PORT Thru Hole	AMP	748875-1	
35	1	P2	2.1mm Barrel Power Connector	Switchcraft	RAPC712	
36	1	P3	2-way Bare Wire Power Connector	Thomas & Betts	2SV-02	
37	2	RP1, RP2	4x 22 ohm Surface Mount Resistor Pack	Venkel		
38	1	RP3	4x 49.9 ohm Surface Mount Resistor Pack	Venkel		
39	1	RP4	4x75 ohm Surface Mount Resistor Pack	Venkel	CRN16-4-750JT	
40	16	RP5, RP6, RP13, RP14, RP15, RP16, RP17, RP18, RP19, RP20, RP21, RP22, RP23, RP24, RP25, RP26	4x 4.7K ohm Surface Mount Resistor Pack	Venkel	CRN16-4-472JT	
41	4	RP7, RP9, RP10, RP11	4x 50 ohm Surface Mount Resistor Pack	Venkel		
42	1	RP8	4x 330 ohm Surface Mount Resistor Pack	Venkel		
43	1	RP12	4x 470 ohm Surface Mount Resistor Pack	Venkel		
44	4	R1, R4, R5, R21	1K ohm 0805 Surface Mount Resistor	Venkel	CR0805-10W-102JT	
45	1	R2	62 ohm 0805 Surface Mount Resistor	Venkel		
46	1	R3	0 ohm 0805 Surface Mount Resistor	Venkel	CR0805-10W-100JT	
47	1	R6	10K 1% ohm Surface Mount Resistor	Venkel		
48	2	R16, R7	10K ohm 0805 Surface Mount Resistor	Venkel	CR0805-10W-103JT	
49	2	R9, R8	180 ohm 0805 Surface Mount Resistor	Venkel		
50	2	R10, R23	4.7K ohm 0805 Surface Mount Resistor	Venkel	CR0805-10W-472JT	
51	1	R11	1.5K ohm 0805 Surface Mount Resistor	Venkel	CR0805-10W-152JT	
52	1	R12	50 ohm 0805 Surface Mount Resistor	Venkel	CR0805-10W-500JT	
53	3	R13, R15, R18	270 ohm 0805 Surface Mount Resistor	Venkel	CR0805-10W-271JT	
54	1	R14	560 ohm 0805 Surface Mount Resistor	Venkel	CR0805-10W-561JT	
55	2	R17, R20	100 ohm 0805 Surface Mount Resistor	Venkel	CR0805-10W-101JT	
55	1	R22	4.7k (not populated)	Venkel	CR0805-10W-472JT	A
56	1	SW1	Configuration DIP switch, 10-position, SPDT	Greyhill	78RB12	
57	1	SW2	SW SPDT RA CLD TH 12V 500MA	EAO Switch	09-10201-02	
58	1	S1	Momentary Switch - .488 x .488 x .388mm Black	C&K	KS11R22CQD	
59	1	S2	Momentary Switch - .488 x .488 x .388mm Red	C&K	KS11R23CQD	
60	9	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9	SMT Surface Mount Test Points	Keystone Electronics Corp.	5015	
61	1	T1	Ethernet isolation transformer	Pulse	PE69012	
62	1	U1	3.3V CAN Transceiver	Texas Instruments	SN65HVD230D	
63	1	U2	ColdFire MCF5282 Microprocessor	Motorola	MCF5282CVF66	
64	1	U3	25MHz Osc.	Pletronics		
65	1	U4	Ethernet PHY	AMD	AM79C874VC	
66	1	U5	AMD 2 MB Flash	AMD	AM29LV160DB-90EC	
67	1	U6	Burst FSRAM	Micron	MT58L128L36F1	A
68	1	U7	Bus transceiver	On-Semiconductor	MC74LCX541DT	
69	1	U8	DC to DC regulator (+7V/+14V to +3.3V)	National Semiconductor	LM2596S-3.3	
70	1	U9	DC to DC regulator (+7V/+14V to +3.3V)	National Semiconductor	LM2596S-5	

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71	2	U10, U12	Voltage Monitoring uP Supervisory Circuits	Analog Devices	ADM708SAR	
72	1	U11	8 MHz oscillator	Pletronics		
73	1	Y1	8 MHz crystal	Pletronics		

74	2	U13, U14	64Mb Synchronous DRAM (4 Meg x 16)	Micron	MT48LC4M16A2TG	
75	2	U15, U16	Rs-232 Transceiver	Maxim	MAX3225CAP	
76	7	Locations per PWA Drawing: 01A11001A	White Pad, Rubber Footer for bottom of PCB	3M	SJ5518-9-ND (Digikey)	
77	2	Locations per PWA Drawing: 01A11001A	Label: " RE11001 Rev 1.1" (white label / black print). Attach one on PWA surface and one on PWA bag.	Vendor Choice		

**Notes:**

**A**

**Not Populated at assembly**