

***Description ASS'Y ROM-DB7501 A101 Q7 i.MX6 Carrier Board**

Qty	Ref Des	Part Description
1	IMAGE-U19	EC Firmware ROM-DB7501
1	PCB1	PCB ROM-DB7501 A101-2 L:6 C:G 1.6mm FR4-TG150
4	STDOFF1,STDOFF2,STDOFF3,STDOFF4	POST F=M2.5*5L M=3.15*3.5L D=5.5 H=5.0 Cu Sn
1	BH1	BATTERY HOLDER 24.9*23.4*8.9 CR2032 BH800.4GG
1	BAT2	BATTERY 3V 195mAH BR2032
1	FS1	FUSE 4A 125V SMD 9.73x5.03x3.81mm 0154004.DR
1	FS2	FUSE 1.6*0.813*0.305mm 1A, 32V, SMD 0467001.
1	BAT1	WAFER 8P 2.54mm 180D(M) DIP A2543WV2-8P
1	I2C1	WAFER BOX 2.0mm 4P 180D(M) W/LOCK A2001WV2-4P
1	SATAPWR1	WAFER 4P 2.5mm 180D(M) DIP 24W1161-04S10-01T
2	LVDS_BK_PWR1,LVDS_BK_PWR2	WAFER BOX 2.0mm 5P 180D(M) DIP WO/Pb JIH VEI
1	SD1	SD CARD 9P 90D(F) SMD WK2192C-S3D-7H
1	CN1	HDMI 19P/0.5mm/(F)/LCP/RA/GFL/S/BK/WO Fange
1	CN8	D-SUB Conn. 18P 90D(M) DIP DM10151-H531-4F
1	DIO1	D-SUB Conn. 9P 2.77mm 90D(F) DIP 41709S1NSACR
1	SATA1	Serial ATA 7P 1.27mm 180D(M) DIP WATM-07DBN4A3B8
1	MODULE1_MXM1	Socket 230P 0.5mm 90D(F) SMD AS0B326
1	CN16	PCIEXPRESS 64P 180D(F) DIP 2EG03217-D2D-DF
1	USB_OTG1	MINI USB 5P 180D(F) SMD UH51543-CS7-7F
2	LVDS1,LVDS2	DEL)B/B Conn. 40P 1.25mm 90D SMD DF13-40DP-1.25
3	JP1(1-2)1,LVDS_VDD1(1-2)1,LVDS_VDD3(1-2)1	JP 1x2P/2.0mm/PBT/VA/GFL/BK/Brass/H3.5mm
7	ATATX1(1-2)1,CN10(2-3)1,CN11(2-3)1,CN9(2-3)1,LVDS_BL1(1-2)1,LVDS_BL2(1-2)1,SATADOM_PWR1(2-3)1	MINI JUMPER 2P 2.54mm 180D(F) 1132-020-02
1	COM1	BOX HEADER 5x2P 2.54mm 180D(M) DIP 23N6960-10S10
1	JTAG1	PIN HEADER 5x2P 2.0mm 180D(M) SMD 21N22050
1	SPI1	PIN HEADER 4x2P 2.54mm 180D(M) DIP 210-92-04GB02
2	LVDS_VDD1,LVDS_VDD3	PIN HEADER 3x1P 2.0mm 180D(M) DIP 2000-13 WS
8	ATATX1,CN9,CN10,CN11,CN13,LVDS_BL1,LVDS_BL2,SATADOM_PWR1	PIN HEADER 3x1P 2.54mm 180D(M) DIP 1130-000-03S
3	JP1,LVDS_VDD2,LVDS_VDD4	PIN HEADER 2*1P 180D(M)SQUARE 2.0mm DIP W/O Pb
5	CN18,CN19,CN20,PWRLED1,SATALED1	PIN HEADER 2x1P 2.54mm 180D(M) DIP 21N12564-
1	I2S_CN1	PIN HEADER 2x10P 2.54mm 180D(M) DIP 21N22564
1	USB0	PIN HEADER 2x5P 2.54mm 180D(M) DIP 21N22564-10S1
1	AUDIO1	Audio Jack 9P 2.5mm 90D(F) DIP ABA-JAK-038-K26
1	CN2	PhoneJack RJ45+USB3.0*2 32P 90D(F) DIP 05-A00919
1	DCIN1	DC POWER JACK 2.5mm 90D(M) DIP 2DC-G213B200
3	SW1,SW2,SW3	TACT SW STS-091 SMD 4P H=3.8mm
1	U1	IC SN74LVC1G07DBVR BUFFER/DRIVER SMD SOT23 5P
2	U15,U28	IC LM393DR DUAL DIFF COMP SMD SOIC 8P
1	U27	IC NTS0104GU12,115 SMD XQFN12 12P
1	U12	IC BQ24725ARGRT Battery Charger 24V VQFN 20P
1	U19	IC IT8566E/AX SMD LQFP 64P 7x7x1.45mm
2	U2,U23	IC MAX3232IPW RS-232 2T2R 250KBPS TSSOP 16P
1	U11	IC TPS40210DGQR Controller SMD MSOP 10P
3	U22,U25,U29	IC TPS2065CDBVR 1A USB Power Distribution sw
1	U10	IC ADM6315-29D3ARTZR7 RESET 2.93V OD SOT-143 4P

6	U4,U5,U6,U7,U8,U14	IC SN74LVC1G07DCKR SMD SC-70 5P
1	U3	IC TPS2052BDG NR Power SW SMD MSOP 8P
1	U9	IC TPS51125RGET SMD QFN 24P
1	U13	IC PCA9545APW I2C SWITCH 4CH SMD TSSOP 20P
1	U20	IC SN74AHCT1G125DBVR bus buffer gate SOT-23 5P
1	U16	IC SN74LVC2G14DCKR dual inverter SC-70 6P
2	U17,U26	IC LM431BIM3/NOPB Zener Shunt Reg 2.5-36V 1% SOT
1	U24	IC SN65HVD251DR CAN TRANCEIVER SMD SOIC 8P
1	U21	IC SN74LVC1G125DCKR SMD SC-70 5P
5	Q11,Q16,Q50,Q53,Q54	MOSFET N-CH 2N7002DW-7-F 0.115A 60V SMT SOT-363
14	Q1,Q3,Q5,Q8,Q18,Q20,Q21,Q23,Q31,Q34,Q36,Q38,Q42,Q49	MOSFET NX7002AK N-CH 0.3A 60V SMD SOT-23 3P
1	Q6	MOSFET P-CH IRLML6402PBF -20V -3.7A SMD SOT23
1	Q15	MOSFET P-CH FDC654P -30V -3.6A SMD SOT-6 6P
2	Q37,Q46	REG APL5325BI-TRG 0.3A 3-6V LDO SOT-23 5P
1	Q33	MOSFET P-CH FDN352AP -1.3A -30V SMD SOT-23 3P
2	Q30,Q47	MOSFET P-CH Si4435DDY-T1-GE3 -30V SMD SO-8 8P
5	Q2,Q24,Q29,Q32,Q45	MOSFET P-CH FDMC4435BZ -8.5A -30V S Power33 8P
2	Q12,Q13	MOSFET Dual N-Ch FDMS9620S 7.5A 30V S POWER56 8P
8	Q9,Q10,Q22,Q26,Q27,Q28,Q35,Q39	MOSFET N-CH FDMC8884 15A 30V SMD Power33 8P
12	Q4,Q7,Q14,Q17,Q19,Q25,Q41,Q43,Q44,Q48,Q51,Q52	MOSFET N-CH BSS138 0.22A 50V SMD SOT-23 3P
1	D2	TVS VC120605D150RP 5.6V SMD 1206
7	D16,D17,D18,D19,D23,D28,D58	LED Green SMD 0603 KPT-1608CGCK
2	D46,D47	Schottky SS1030 1A 30V SMD SOD-123 2P
1	D29	Schottky SK84 8A 40V SMD DO-214AB 2P
1	D45	TVS SMBJ14A-TG-WS 14V 600W 25.9A SMD SMB 2P
38	D1,D3,D4,D5,D6,D7,D8,D9,D10,D11,D12,D13,D14,D15,D20,D21,D22,D24,D25,D26,D32,D33,D34,D35,D36,D37,D40,D41,D50,D51,D52,D53,D54,D55,D56,D57,D60,D61	TVS USB0005WP 4A 300V SMD 0402
1	D59	DIODE RB751S40 0.2A 40V SMD SOD523 2p
4	D38,D39,D48,D49	TVS RClamp0544T.TCT 5A 12KV 75W SLP2010P8T 10P
3	D27,D30,D31	DIODE Schottky BAS40-05 SMT SOT-23 3PIN
1	OSC1	OSC 24MHz 25ppm 3.3V 15pF SMD 4P 3.2x2.5mm
1	Y1	X'TAL 32.768KHZ 20ppm 12.5pF SMD 4P Epson-MC146
3	B33,B34,B35	Bead 1Kohm 25% 0.4A SMD 0603 MMZ1608Y102B
2	B30,B32	Bead 1Kohm 25% 0.1A SMD 0603 BLM18BD102SN1D
4	B7,B8,B9,B29	Bead 80Ohm 25% 4.5A 0805 SMD UPB201209T-800Y-N
13	B2,B3,B23,B24,B25,B26,B27,B28,B42,B43,B44,B45,B49	EMI Filter 90ohm 25% 330mA SMD 4P DLW21SN900SQ2L
14	B1,B4,B5,B6,B10,B22,B31,B38,B39,B40,B41,B46,B47,B48	Bead 120ohm 25% 2A SMD 0603 BLM18PG121SN1 WO/Pb
1	L4	Choke 5.6uH 20% 8A SMD PCMB104T-5R6MS
1	L5	Inductor 0.47uH 20% 7A SMD PCMB042T-R47MS
1	L3	Inductor 4.7uH 20% 6A SMD 2P 744311470
2	L1,L2	Inductor 2.2uH 20% 14A SMD PCMC063T-2R2MN
1	C171	MLCC X5R 2.2uF 10% 6.3V SMD 0603 CC0603KRX5R5BB2
3	C22,C95,C168	MLCC X7R 10uF 10% 16V SMD 1206 C3216X7R1C106K
2	C188,C189	MLCC X7R 2.2uF 10% 16V SMD 0805 C2012X7R1C225KT
3	C66,C79,C185	MLCC X7R 1000pF 10% 50V SMD 0402 223858715623
3	C121,C198,C204	MLCC NPO 470pF 5% 50V SMD 0402
1	C75	MLCC NPO 47pF 5% 50V SMD 0603 C1608C0G1H470J
1	C223	MLCC NPO 22pF 5% 50V SMD 0402 CC0402JRNPO9BN220

2	C144,C145	MLCC NPO 15pF 5% 50V SMD 0402 223886915159
13	C55,C69,C108,C200,C201,C215,C216,C217,C218,C219,C220,C221,C222	MLCC NPO 100pF 5% 50V SMD 0402 CC0402JRNPO9BN101
2	C34,C35	MLCC X7R 0.1uF 10% 25V SMD 0603 223891615649
7	C13,C167,C181,C186,C205,C227,C228	MLCC X5R 10uF 10% 16V SMD 1206 C1206B106K016T
1	C88	MLCC X7R 470nF 10% 16V SMD 0805 222278015658
3	C224,C225,C226	MLCC X7R 1500pF 10% 50V SMD 0402 223858715625
2	C36,C39	SC 330uF 20% 6.3V SMD 7.3x4.3x1.9mm T520V337M006
3	C24,C27,C83	MLCC X7R 0.01uF 10% 50V SMD 0402 0402B103K500CT
1	C72	MLCC X5R 1uF 10% 16V SMD 0402 EMK105BJ105KV-F
1	C73	MLCC X7R 4.7nF 10% 1KV SMD 1206 CC1206KKX7RCBB
14	C44,C45,C61,C76,C80,C89,C92,C99,C100,C112,C154,C192,C197,C210	MLCC X5R 10uF 10% 25V SMD 1206 TMK316BJ106KL-T
10	C9,C14,C18,C30,C31,C119,C131,C139,C140,C142	MLCC X7R 10uF 10% 10V SMD 0805 C2012X7R1A106KT
3	C90,C137,C157	MLCC X5R 10uF 20% 6.3V SMD 0402 CL05A106MQ5NUNC
1	C64	MLCC NPO 150pF 5% 50V SMD 0402 GRM1555C1H151JA01
3	C67,C71,C77	SC 100uF 20% 16V DIP 6.3x5mm APSF160EC3101MF05S
1	C68	MLCC X7R 0.22uF 10% 25V SMD 0603 C0603X224K025T
4	C2,C5,C165,C187	SC 150uF 20% 6.3V SMD 3.5x2.8x1.9mm 6TPE150MAZB
1	C58	MLCC X7R 0.47uF 10% 16V SMD 0603 C0603X474K016T
3	C15,C113,C178	MLCC X5R 1uF 10% 6.3V SMD 0402 CC0402KRX5R5BB105
97	C1,C3,C4,C6,C7,C8,C10,C11,C12,C16,C17,C19,C20,C21,C23,C25,C26,C28,C29,C32,C33,C40,C41,C46,C49,C50,C53,C59,C62,C70,C74,C81,C82,C85,C87,C91,C101,C102,C105,C106,C109,C110,C111,C114,C115,C116,C118,C120,C122,C123,C124,C125,C126,C127,C128,C129,C132,C133,C134,C141,C143,C146,C147,C148,C149,C151,C155,C158,C159,C161,C162,C163,C164,C166,C169,C170,C173,C174,C175,C176,C177,C179,C180,C183,C184,C191,C194,C195,C196,C199,C202,C203,C206,C212,C213,C214,C229	MLCC X7R 0.1uF 10% 16V SMD 0402 2238 787 15649
1	C138	MLCC X7R 2.2uF 10% 25V SMD 1206 C3216X7R1E225KT
7	C51,C56,C65,C78,C97,C103,C193	MLCC X7R 1uF 10% 50V SMD 1206 C3216X7R1H105KT
5	C93,C96,C107,C156,C190	MLCC X7R 1uF 10% 16V SMD 0603 C1608X7R1C105K
14	C37,C38,C42,C43,C47,C48,C52,C57,C60,C63,C172,C182,C208,C209	MLCC X7R 0.1uF 10% 50V SMD 0603 223858615649
1	C98	MLCC X7R 0.047uF 10% 25V SMD 0402 C1005X7R1E473K
2	C135,C207	MLCC X7R 2200pF 10% 50V SMD 0402 223858715627
1	R313	TKFR 330 5% 1/16W SMD 0402
2	R178,R334	TKFR 1.5K 5% 1/10W SMD 0603
2	R325,R342	TKFR 150 5% 1/16W SMD 0402
1	R233	TKFR 10M 5% 1/16W SMD 0402
5	R129,R141,R280,R295,R337	TKFR 0 Jumper 1/10W SMD 0603
113	R2,R3,R11,R14,R18,R19,R22,R25,R28,R30,R33,R83,R95,R98,R99,R100,R101,R102,R103,R106,R126,R127,R128,R130,R131,R132,R134,R135,R136,R137,R138,R139,R140,R142,R144,R151,R152,R153,R156,R158,R177,R181,R182,R188,R191,R192,R200,R201,R202,R203,R209,R213,R222,R226,R228,R229,R231,R235,R246,R249,R251,R252,R254,R255,R256,R257,R258,R259,R260,R261,R262,R263,R265,R266,R267,R268,R269,R270,R271,R272,R273,R274,R285,R287,R288,R289,R290,R292,R310,R311,R314,R321,R322,R323,R324,R338,R349,R350,R351,R354,R355,R378,R379,R381,R382,R386,R387,R388,R389,R394,R401,R402,R410	TKFR 0 Jumper 1/16W SMD 0402
2	R395,R396	TKFR 75 1% 1/16W SMD 0402
2	R47,R60	TKFR 750 1% 1/16W SMD 0402
11	R5,R41,R42,R43,R44,R45,R46,R113,R185,R198,R199	TKFR 22 1% 1/16W SMD 0402

1	R183	TKFR 200K 1% 1/16W SMD 0402
1	R77	TKFR 13K 1% 1/16W SMD 0402
25	R9,R37,R38,R59,R66,R68,R71,R75,R121,R123,R125,R171,R184,R204,R276,R312,R315,R320,R347,R358,R369,R383,R384,R393,R411	TKFR 100K 1% 1/16W SMD 0402
5	R84,R172,R223,R346,R348	TKFR 10K 1% 1/10W SMD 0603
8	R7,R80,R118,R122,R205,R210,R212,R282	TKFR 1K 1% 1/16W SMD 0402
1	R86	TKFR 100 1% 1/16W SMD 0402
1	R89	TKFR 100 1% 1/10W SMD 0603
1	R94	TKFR 68 1% 1/10W SMD 0603
58	R1,R20,R23,R24,R26,R31,R35,R48,R54,R55,R56,R58,R65,R69,R70,R74,R91,R92,R97,R104,R105,R110,R111,R133,R168,R187,R196,R197,R206,R211,R216,R220,R234,R236,R239,R241,R244,R245,R275,R277,R286,R291,R293,R294,R317,R336,R344,R370,R371,R372,R373,R374,R375,R376,R377,R380,R398,R409	TKFR 10K 1% 1/16W SMD 0402
2	R150,R154	TKFR 10 1% 1/10W SMD 0603
1	R343	TKFR 33.2K 1% 1/10W SMD 0603
1	R335	TKFR 120 5% 1/8W SMD 0805
12	R6,R8,R10,R327,R332,R339,R340,R345,R353,R356,R368,R405	TKFR 0 Jumper 1/8W SMD 0805
1	R109	CSR 10m 1% 1W SMD 3720
3	R143,R164,R296	TKFR 240K 1% 1/16W SMD 0402
1	R78	TKFR 19.6K 1% 1/16W SMD 0402
2	R120,R174	CSR 10m 1% 1/2W SMD 1206
1	R117	TKFR 47.5K 1% 1/16W SMD 0402
6	R49,R50,R51,R52,R53,R330	TKFR 49.9K 1% 1/16W SMD 0402
1	R237	TKFR 2 1% 1/10W SMD 0603
1	R159	TKFR 7.5 1% 1/10W SMD 0603
2	R81,R82	TKFR 62K 1% 1/16W SMD 0402
7	R61,R62,R93,R96,R155,R176,R297	TKFR 47K 1% 1/16W SMD 0402
1	R90	TKFR 43K 1% 1/16W SMD 0402
1	R180	TKFR 220K 1% 1/16W SMD 0402
1	R114	TKFR 374K 1% 1/16W SMD 0402
1	R107	TKFR 620K 1% 1/16W SMD 0402
5	R34,R40,R87,R88,R397	TKFR 330 1% 1/16W SMD 0402
1	R329	TKFR 51K 1% 1/16W SMD 0402
1	R63	TKFR 8.2K 1% 1/16W SMD 0402
1	R119	TKFR 3.16K 1% 1/16W SMD 0402
3	R162,R166,R186	TKFR 4.02K 1% 1/16W SMD 0402
1	R189	TKFR 68K 1% 1/16W SMD 0402
1	R190	TKFR 27K 1% 1/16W SMD 0402
2	R170,R221	TKFR 28K 1% 1/16W SMD 0402
1	R76	TKFR 30K 1% 1/16W SMD 0402
2	R36,R39	TKFR 2.2K 1% 1/16W SMD 0402
2	R219,R281	TKFR 12.7K 1% 1/16W SMD 0402
1	R116	TKFR 51.1K 1% 1/10W SMD 0603
2	R253,R264	TKFR 4.7K 1% 1/16W SMD 0402
1	R352	TKFR 43K 1% 1/10W SMD 0603
3	R79,R316,R328	TKFR 20K 1% 1/16W SMD 0402