

Parts List

512870-0001R
 ASSY,NETRA DDR3 EVM
 SUBA

Type	PL	PCB Package	
Revision	E	ION Footprint	
Status	U	Package Qty	1
Date	4/29/2011	Bin Loc.	
By		Avg Cost	SUBA

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		ION Footprint		Mfr P/N	Mfr Name
1	1 each	512871-0001R	DWG C	PWB,NETRA DDR3 EVM CSTM	
2	1 each	512872-0001	DOC C	LOGIC,NETRA DDR3 EVM SCH	
3	1 each	102801-0001R	PS	IC,SO16,SERIAL FLASH MEMORY,32MEGA-BIT MATL	U20
		so16-25x75-300		W25X32VFIG	Winbond Electronics Corp.
4	1 each	102235-0001R	PS	IC,SO8,SERIAL EEPROM,256K-BIT MATL	U12
		so8-25x75-295		CAT24C256WI-GT3	Catalyst Semiconductor, Inc.
5	1 each	103408-0002R	PS	IC,BGA,DIGITAL MATL	U31
				TMX320DM8168ACYG	Texas Instruments
6	8 each	103693-0012R	PS	IC,BGA78,DDR3 SDRAM,x8,1G,1.25nS MATL	U47, U48, U49, U50, U51, U52, U53, U54
		bga6x13-p8-12p75		MT41J128M8JP-125:G	Micron Technology, Inc.
7	1 each	102508-0001R	PS	IC,MLCC84,GIGABIT ETHERNET TRANSCEIVER MATL	U19
		mlcc84		L-ET1011C2-C-D	LSI Corporation
8	1 each	102800-0001R	PS	IC,PQFP,STEREO AUDIO CODEC,LOW POWER MATL	U2
		rgz48-11x34		TLV320AIC3106IRGZT	Texas Instruments
9	1 each	103319-0001R	PS	IC,TSSOP48,TRIPLE BUCK PMIC MATL	U16
		dca48-pad		TPS65232A2DCAR	Texas Instruments
10	1 each	103339-0001R	PS	IC,TSSOP38,SINGLE-CHIP HDMI TRANSMITTER MATL	U1
		dbt38-12x70		TPD12S521DBTR	Texas Instruments
11	1 each	103346-0001R	PS	IC,TSSOP28,MIXED SIGNAL MATL	U38
		tssop28-14x70		MSP430F2132IPWR	Texas Instruments
12	2 each	102385-0001R	PS	IC,TSSOP24,REMOTE 16-BIT I/O EXPANDER FOR MATL	U13, U9
		pw24-14x70		PCF8575PWR	Texas Instruments

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13	1 each	101679-0001R	PS	IC,TSSOP24,10-BIT FET BUS SWITCH,LOW MATL	U63
		pw24-14x70		SN74CBTLV3384PWR	Texas Instruments
14	1 each	103345-0001R	PS	IC,TSSOP20,6-CHANNEL VIDEO AMPLIFIER MATL	U4
		pw20-14x70		THS7360IPW	Texas Instruments
15	2 each	101691-0001R	PS	IC,TSSOP16,RS-232 DRIVER/RECEIVER MATL	U39, U57
		pw16-14x70		MAX3221CPWR	Texas Instruments
16	1 each	103362-0001R	PS	IC,TSSOP14,4-CHANNEL SDTV VIDEO MATL	U8
		tssop14-14x70		THS7375IPW	Texas Instruments
17	1 each	103066-0002R	PS	IC,TSOP48,FLASH MEMORY,NAND MATL	U24
				MT29F2G16AADWP:D	Micron Technology, Inc.
18	9 each	103331-0001R	PS	IC,TSOP10,BI-DIRECTIONAL CURRENT/POWER MATL	U11, U14, U17, U18, U22, U23, U42, U59, U7
		dgs10-11x60		INA220AIDGS	Texas Instruments
19	1 each	103314-0001R	PS	IC,SON8,SYNCHRONOUS BUCK DC-TO-DC MATL	U29
		drb8-14x33-pad		TPS40041DRBT	Texas Instruments
20	2 each	102810-0001R	PS	IC,SO8,POWER DISTRIBUTION MATL	U28, U40
		so8-25x75		TPS2065DR	Texas Instruments
21	1 each	101647-0001R	PS	IC,SO5,REGULATOR,SHUNT,LOW-VOLTAGE,ADJ MATL	U67
		dbv-20x60-5		TLV431ACDBVR	Texas Instruments
22	1 each	101057-0125R	PS	IC,SO5,SINGLE BUS BUFFER GATE MATL	U60
		dck-5		SN74LVC1G125DCKR	Texas Instruments
23	3 each	101689-0125R	PS	IC,SO5,SINGLE BUS BUFFER GATE MATL	U21, U25, U43
		dck-5		SN74CBTLV1G125DCKR	Texas Instruments
24	1 each	101057-0126R	PS	IC,SO5,SINGLE BUS BUFFER GATE MATL	U41
		dck-5		SN74LVC1G126DCKR	Texas Instruments
25	5 each	101057-0008R	PS	IC,SO5,SINGLE 2-INPUT POSITIVE AND GATE MATL	U34, U35, U37, U44, U68
		dck-5		SN74LVC1G08DCKR	Texas Instruments

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26	2 each	101320-0018R	PS	IC,SO5,LINEAR REGULATOR,50mA,1.8V MATL	U3, U55
		dbv5-27x39		TPS77018DBVT	Texas Instruments
27	2 each	101057-0001R	PS	IC,SO5,2 INPUT POSITIVE NAND GATE MATL	U36, U62
		dck-5		SN74LVC1G00DCKR	Texas Instruments
28	1 each	103316-0001R	PS	IC,QFN10,SINK/SOURCE DDR TERMINATION MATL	U58
		drc10-11x33		TPS51200DRCT	Texas Instruments
29	2 each	102728-0001R	PS	IC,SMT,ESD PROTECTION MATL	U64, U65
		drl5-12x40		TPD2E001DRLR	Texas Instruments
30	1 each	103350-0001R	PS	IC,QFN32,CLOCK GENERATOR,2 OUTPUT MATL	U30
		QFN32_202SQ		CDCM61002RHBT	Texas Instruments
31	1 each	103140-0001R	PS	IC,QFN20,STEP DOWN CONVERTER WITH DUAL MATL	U10
		RUK20		TPS65001RUK	Texas Instruments
32	2 each	103317-0001R	PS	IC,QFN14,SYNCHRONOUS STEP DOWN MATL	U33, U56
		rgy14-12x34		TPS54620RGY	Texas Instruments
33	4 each	102020-0009R	PS	IC,DBV6,SUPERVISORY CIRCUIT,.9V MATL	U32, U45, U46, U5
		DBV6-27X39-6		TPS3808G09DBVR	Texas Instruments
34	1 each	101787-0001R	PS	TRANSISTOR,SMT,DUAL LOAD SWITCH MATL	U66
		DBV6-27X39-6		FDC6331L	Fairchild Semiconductor
35	4 each	102437-0001R	PS	TRANSISTOR,SMT,SMALL SIGNAL MOSFET MATL	Q2, Q3, Q5, Q6
		SC-75		NTA4153NT1G	ON Semiconductor
36	1 each	103333-0001R	PS	TRANSISTOR,SO8,DUAL N-CHANNEL POWER MATL	Q1
		so8-25x75		FDS6982	Fairchild Semiconductor
37	1 each	103599-0001R	PS	TRANSISTOR,SO8,POWER MOSFET,20V,10A MATL	Q4
		so8-25x75		IRF8910PbF	International Rectifier
38	2 each	102431-0001R	PS	TRANSISTOR,SOT223,PNP,1A MATL	U26, U27
		sot223-50x80-3		BCP69T1G	ON Semiconductor

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39	1 each	100680-0001R SOT23-28X44-GSD	PS	TRANSISTOR,SOT23,MOSFET,N-CHANNEL,BSS1 MATL	Q7 BSS138TA Zetex, Inc.
40	2 each	102109-0001R sot23-28x44	PS	TRANSISTOR,SOT23,SWITCHING MATL	Q10, Q8 FJV3109RMTF Fairchild Semiconductor
41	1 each	101675-0001R SOT23-28x44	PS	TRANSISTOR,SOT23,MOSFET,HEXFET MATL	Q9 IRLML6401TRPBF International Rectifier
42	1 each	101808-0014R SMC-80X128	PS	TRANSORB,SMC,UNI-DIRECTIONAL,1500W,14V MATL	D1 SMCJ14A-13-F Diodes, Inc.
43	1 each	102201-2457R xtal4-70x78-ctx	PS	OSC,SMT,24.576 MHZ,3.3V MATL	U6 CSX750FBC24.576000M- UT Citizen America Corporation
44	1 each	101672-3276R OSC4-71X79	PS	OSC,SMT,32.768KHZ MATL	U15 ECS-327SMO ECS
45	1 each	102883-0032R xtal4-23x47-ssp-t7	PS	CRYSTAL,SMT,32.768kHz MATL	Y3 SSPT7F-12.5PF20-R Seiko Instruments USA, Inc.
46	1 each	101590-0250R xtal2-75x94	PS	CRYSTAL,SMT,6mm,25 MHZ MATL	Y1 ABM7-25.000MHZ-D2Y-T Abracon
47	1 each	103419-0250R xtal4-32x35-abm10	PS	CRYSTAL,SMT,25 MHZ,8pF MATL	Y2 ECS-250-8-36CKM ECS
48	1 each	101590-0270R xtal2-75x94	PS	CRYSTAL,SMT,6mm,27 MHZ MATL	Y4 ABM7-27.000MHZ-D2Y-T Abracon
49	1 each	102171-0001R tsop34840-6545	PS	INFRARED RECEIVER,THRU-HOLE,40kHz MATL	U61 TSOP34840 Vishay Intertechnology
50	5 each	100823-0001R led1206-59x59	PS	LED,SMT 1206,GREEN MATL	DS1, DS2, DS3, DS4, DS5 LTST-C150GKT LITEON
51	6 each	102569-1470R emi-NFM21p	PS	FILTER,SMT 0805,EMI,.47uF,16V MATL	E1, E2, E3, E4, E5, E6 NFM21PC474R1C3D Murata Electronics

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52	4 each	101126-0001R FB1806-41X70	PS	FERRITE BEAD,SMT 1806,75 OHMS MATL	L10, L11, L16, L9 Murata Electronics
53	8 each	101228-2201R l805-35x60	PS	FERRITE BEAD,SMT 0805,220 OHMS MATL	L1, L18, L19, L2, L20, L21, L3, L5 Murata Electronics
54	1 each	101858-2201R l603-35x45	PS	FERRITE BEAD,SMT 0603,220 OHM MATL	L17 Murata Electronics
55	2 each	101858-1002R l603-35x45	PS	FERRITE BEAD,SMT 0603,1K OHM MATL	L13, L26 Murata Electronics
56	1 each	103394-0120R choke-115x212	PS	INDUCTOR,SMT,1.2uH,12A MATL	L12 Würth Electronics Midcom Inc.
57	1 each	103393-0180R choke-115x212	PS	INDUCTOR,SMT,1.8uH,7.6A MATL	L14 Würth Electronics Midcom Inc.
58	1 each	102747-0220R ind_vlcf	PS	INDUCTOR,SMT,2.2uH,+/-30% MATL	L4 TDK Corporation
59	2 each	103369-0220R ind2-80x65	PS	INDUCTOR,SMT,2.2uH,4A MATL	L7, L8 Würth Electronics Midcom Inc.
60	1 each	103401-0470R CHOKE-115X212	PS	INDUCTOR,SMT,4.7uH,8.5A MATL	L6 Würth Electronics Midcom Inc.
61	1 each	103368-0330R ind2-110x150	PS	INDUCTOR,SMT,POWER CHOKE,3.3uH,+/-20% MATL	L15 Susumu Co., Ltd.
62	1 each	100872-0004R FUSEFOLDER-OMNI-BLOK	PS	FUSE,SMT,OMNI-BLOK,4A MATL	F1 Littlefuse
63	2 each	103658-0471R c805-35x60	PS	CAP,CER,SMT 0805,47uF,6.3V,X5R,20% MATL	C38, C40 Taiyo Yuden

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		ION Footprint		Mfr P/N	Mfr Name
64	3 each	101290-0102R c7343-84x118	PS	CAP,TANT,SMT 2816,100uF,16V MATL	C4, C41, C47 T491D107K016AT Kemet Electronics Corporation
65	1 each	103240-0332R c7343-84x118	PS	CAP,TANT,SMT 2816,330uF,10V MATL	C1 B45197A2337K409V10 Kemet Electronics Corporation
66	6 each	101608-0102R c7343-84x118	PS	CAP,TANT,SMT 2816,100uF,10V MATL	C102, C103, C110, C152, C218, C60 593D107X9010D2TE3 Vishay Intertechnology
67	28 each	101953-0331R c1206-40x70p	PS	CAP,TANT,SMT 1206,33uF,6.3V,LOW ESR MATL	C117, C123, C131, C140, C141, C164, C165, C19, C20, C223, C230, C24, C32, C354, C36, C368, C445, C451, C51, C512, C523, C524, C525, C526, C53, C63, CT1, CT2 TPSA336K006R0600 AVX Corporation
68	7 each	101003-0101R c1206-40x70-POL	PS	CAP,TANT,SMT 1206,10uF,6.3V MATL	C13, C171, C2, C367, C386, C6, C787 T491A106M006AT Kemet Electronics Corporation
69	5 each	103216-0102R c1210-70x102	PS	CAP,CER,SMT 1210,100uF,6.3V,Y5V MATL	C220, C225, C369, C57, C58 C3225Y5V0J107Z TDK Corporation
70	2 each	101694-0470R C1206-40X70	PS	CAP,CER,SMT 1206,4.7uF,16V,X5R MATL	C126, C352 C1206C475K4PAC Kemet Electronics Corporation
71	6 each	101064-0221R C1206-40X70	PS	CAP,CER,SMT 1206,22uF,10V MATL	C34, C35, C42, C44, C49, C50 LMK316F226ZL-T Taiyo Yuden
72	6 each	101497-0101R C1206-40X70	PS	CAP,CER,SMT 1206,10uF,6.3V MATL	C370, C371, C372, C382, C383, C384 JMK316B7106ML-T Taiyo Yuden
73	6 each	103379-0101R c1206-40x70	PS	CAP,CER,SMT 1206,10uF,25V,X5R,10% MATL	C118, C119, C127, C353, C377, C378 GRM31CR61E106KA12L Murata Electronics
74	2 each	101103-1823R c603-35x45	PS	CAP,CER,SMT 0603,820pF,50V,+/-5%,NPO MATL	C343, C59 ECJ-1VC1H821J Panasonic

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		ION Footprint		Mfr P/N	Mfr Name
75	1 each	102590-0470R	PS	CAP,CER,SMT 0603,4.7uF,6.3V,X5R,+/-20% MATL	C11
		c603-35x45		GRM188R60J475ME19D	Murata Electronics
76	2 each	101103-1184R	PS	CAP,CER,SMT 0603,18pF,50V,+/-5%,NPO MATL	C476, C477
		c603-35x45		ECJ-1VC1H180J	Panasonic
77	6 each	102963-0101R	PS	CAP,CER,SMT 0603,10uF,6.3V,X5R,+/-20% MATL	C109, C533, C565, C75, C76, C91
		c603-35x45		GRM188R60J106ME	Murata Electronics
78	1 each	102965-1220R	PS	CAP,CER,SMT 0603,.22uF,10V,+/-10%,X7R MATL	C100
		c603-35x45		GRM188R71A224KA01D	Murata Electronics
79	4 each	100994-1100R	PS	CAP,CER,SMT 0603,.1uF,16V,+/-10%,X7R MATL	C18, C21, C22, C23
		c603-35x45		C0603C104K4RAC	Kemet Electronics Corporation
80	1 each	100994-1221R	PS	CAP,CER,SMT 0603,.022uF,16V,+/-10%,X7R MATL	C339
		c603-35x45		ECJ-1VB1C223K	Panasonic
81	1 each	100994-1181R	PS	CAP,CER,SMT 0603,.018uF,16V,+/-10%,X7R MATL	C136
		c603-35x45		ECJ-1VB1C183K	Panasonic
82	1 each	101782-1564R	PS	CAP,CER,SMT 0402,56pF,50V,+/-5%,NPO MATL	C132
		c402-25		C0402C560J5GACTU	Kemet Electronics Corporation
83	1 each	101587-5601R	PS	CAP,CER,SMT 0402,560pF,25V,+/-10%,X7R MATL	C104
		c402-25		C0402C561K5RAC	Kemet Electronics Corporation
84	1 each	101782-1334R	PS	CAP,CER,SMT 0402,33pF,50V,+/-5%,NPO MATL	C101
		c402-25		C0402C330J5GAC	Kemet Electronics Corporation
85	1 each	102058-1332R	PS	CAP,CER,SMT 0402,3300pF,50V,+/-10%,X7R MATL	C473
		c402-25		C0402C332K5RACTU	Kemet Electronics Corporation
86	1 each	101782-1224R	PS	CAP,CER,SMT 0402,22pF,50V,+/-5%,NPO MATL	C17
		c402-25		C0402C220J5GACTU	Kemet Electronics Corporation

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87	26 each	102962-0100R	PS	CAP,CER,SMT 0402,1uF,6.3V,+/-10%,X5R MATL	C212, C213, C373, C379, C461, C465, C472, C486, C488, C491, C542, C612, C641, C642, C653, C666, C692, C693, C764, C768, C792, C793, C794, C800, C9, C94
		c402-25		GRM155R60J105KE19D	Murata Electronics
88	2 each	102756-1184R	PS	CAP,CER,SMT 0402,18pF,50V,+/-5%,C0G MATL	C224, C264
		c402-25		GRM1555C1H180JZ01D	Murata Electronics
89	3 each	101782-1104R	PS	CAP,CER,SMT 0402,10pF,50V,+/-5%,NPO MATL	C161, C162, C362
		c402-25		C0402C100J5GAC	Kemet Electronics Corporation
90	3 each	101782-1103R	PS	CAP,CER,SMT 0402,100pF,50V,+/-5%,NPO MATL	C27, C31, C43
		c402-25		C0402C101J5GAC	Kemet Electronics Corporation
91	2 each	101587-1220R	PS	CAP,CER,SMT 0402,.22uF,10V,+/-10%,X5R MATL	C474, C635
		c402-25		GRM155R61A224KE19D	Murata Electronics

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92	326 each	101587-1100R	PS	CAP,CER,SMT 0402, .1uF,10V,+/-10%,X5R MATL	C10, C106, C107, C112, C113, C115, C116, C12, C14, C148, C15, C153, C159, C16, C160, C196, C209, C210, C211, C215, C216, C217, C219, C221, C222, C226, C227, C228, C229, C231, C232, C233, C234, C235, C236, C237, C238, C239, C240, C241, C242, C243, C244, C245, C246, C247, C248, C249, C250, C251, C252, C253, C254, C255, C256, C257, C258, C259, C26, C260, C261, C262, C263, C265, C266, C267, C268, C269, C270, C271, C272, C273, C274, C275, C276, C277, C278, C279, C280, C281, C282, C283, C284, C285, C286, C287, C288, C289, C290, C291, C292, C293, C294, C295, C296, C297, C298, C299, C3, C300, C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C312, C313, C314, C315, C316, C317, C318, C319, C320, C321, C322, C323, C324, C325, C326, C327, C328, C329, C33, C330, C331, C332, C333, C334, C335, C336, C337, C338, C340, C341, C344, C345, C346, C347, C348, C349, C350, C351, C356, C357, C358, C359, C360, C361, C363, C364, C365, C366, C37, C374, C375, C376, C380, C39, C443, C450, C452, C455, C456, C457, C458, C459, C462, C464, C466, C467, C468, C469, C470,

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					C471, C475, C478, C479, C480, C481, C482, C483, C484, C485, C487, C490, C492, C493, C494, C495, C497, C498, C499, C5, C500, C501, C502, C504, C506, C507, C508, C509, C511, C513, C514, C515, C516, C517, C518, C519, C520, C521, C522, C527, C528, C563, C564, C568, C569, C571, C572, C588, C616, C633, C657, C658, C659, C660, C661, C694, C7, C704, C707, C710, C711, C712, C713, C714, C715, C716, C717, C718, C719, C720, C721, C722, C723, C724, C725, C726, C727, C728, C729, C730, C731, C732, C733, C734, C735, C736, C737, C738, C739, C740, C741, C742, C743, C744, C745, C746, C747, C748, C749, C750, C751, C752, C753, C754, C755, C756, C758, C760, C761, C762, C763, C765, C766, C767, C769, C77, C770, C771, C772, C773, C774, C775, C776, C777, C778, C78, C780, C781, C782, C783, C784, C785, C786, C788, C789, C791, C795, C796, C797, C798, C799, C8, C801, C802, C88, C89		
		c402-25		C0402C104K8PACTU	Kemet Electronics Corporation		
93	2 each	102213-1471R	PS	CAP,CER,SMT 0402,.047uF,16V,+/-10%,X7R MATL	C444, C448		
		c402-25		EMK105B7473KV-F	Taiyo Yuden		

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94	7 each	101587-1101R c402-25	PS	CAP,CER,SMT 0402,.01uF,16V,+/-10%,X7R MATL C0402C103K4RAC	C460, C463, C496, C503, C505, C510, C557 Kemet Electronics Corporation
95	2 each	102213-1181R c402-25	PS	CAP,CER,SMT 0402,.018uF,16V,+/-10%,X7R MATL ECJ-0EB1C183K	C143, C342 Panasonic
96	14 each	102058-1102R c402-25	PS	CAP,CER,SMT 0402,.001uF,50V,+/-10%,X7R MATL C0402C102K5RAC	C25, C28, C29, C30, C381, C385, C387, C45, C46, C48, C567, C607, C97, C99 Kemet Electronics Corporation
97	15 each	103367-1102R c201-6p6spc	PS	CAP,CER,SMT 0201,1000pF,25V,+/-10%,X7R MATL GRM033R71E102KA01D	C195, C534, C578, C586, C610, C639, C67, C670, C678, C684, C685, C687, C696, C699, C757 Murata Electronics

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98	263 each	103241-1100R	PS	CAP,CER,SMT 0201, .1uF,6.3V,+/-10%,X5R MATL	C668, C669, C671, C672, C673, C674, C675, C676, C677, C679, C68, C680, C681, C682, C683, C686, C688, C689, C69, C690, C691, C695, C697, C698, C70, C700, C701, C702, C703, C71, C72, C73, C74, C759, C105, C108, C111, C114, C120, C121, C122, C124, C125, C128, C129, C130, C133, C134, C135, C137, C138, C139, C142, C144, C145, C146, C147, C149, C150, C151, C155, C156, C157, C158, C163, C166, C167, C168, C169, C170, C175, C176, C177, C178, C179, C180, C181, C182, C183, C184, C185, C186, C187, C188, C189, C190, C191, C192, C193, C194, C197, C198, C199, C200, C201, C202, C203, C204, C205, C206, C207, C208, C214, C389, C390, C391, C392, C393, C396, C397, C398, C399, C400, C405, C406, C407, C412, C413, C414, C419, C420, C426, C427, C428, C431, C432, C433, C434, C435, C438, C439, C440, C441, C442, C446, C447, C453, C454, C52, C529, C530, C531, C532, C535, C536, C537, C538, C539, C540, C541, C543, C544, C545, C546, C547, C548, C549, C55, C550, C551, C552, C553, C554, C558, C559, C56, C560, C561, C562, C566, C570, C573, C574, C575, C576, C577, C580, C581, C582,	

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					C583, C584, C587, C589, C590, C591, C592, C593, C594, C595, C596, C597, C598, C599, C600, C601, C602, C603, C604, C605, C606, C608, C61, C611, C613, C614, C615, C617, C618, C619, C62, C620, C621, C622, C623, C624, C625, C626, C627, C628, C629, C630, C631, C632, C634, C636, C637, C638, C64, C640, C643, C644, C645, C646, C647, C648, C649, C65, C650, C651, C652, C654, C655, C656, C66, C662, C663, C664, C665, C667, C79, C80, C81, C82, C83, C84, C85, C86, C90, C92, C93, C95, C96, C98
		c201-6p6spc		GRM033R60J104KE19D	Murata Electronics
99	6 each	103241-1101R	PS	CAP,CER,SMT 0201,.01uF,6.3V,+/-10%,X5R MATL	C174, C555, C556, C579, C585, C609
		c201-18p5x15		GRM033R60J103KA01D	Murata Electronics
100	1 each	101069-2200R	PS	RES,NETWORK,SMT,16 PIN,8 RES,22 MATL	RN11
		rpak16-10x25-2hv		EXB-2HV220JV	Panasonic
101	16 each	101327-0001R	PS	RES,NETWORK,SMT,8 PIN,4 RES,0 OHM,5%,1/16 MATL	RN10, RN12, RN13, RN14, RN15, RN16, RN17, RN18, RN19, RN3, RN4, RN5, RN6, RN7, RN8, RN9
		rpak8-10x25-28v		EXB-28VR000X	Panasonic
102	1 each	101327-1003R	PS	RES,NETWORK,SMT,8 PIN,4 RES,10K MATL	RN2
		rpak8-10x25-28v		EXB-28V103JX	Panasonic
103	1 each	101327-1002R	PS	RES,NETWORK,SMT,8 PIN,4 RES,1K MATL	RN1
		rpak8-10x25-28v		EXB-28V102JX	Panasonic
104	12 each	101327-4700R	PS	RES,NETWORK,SMT,8 PIN,4 RES,47 MATL	RN20, RN21, RN22, RN23, RN24, RN25, RN26, RN27, RN28, RN29, RN30, RN31
		rpak8-10x25-28v		EXB-28V470JX	Panasonic

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ION Footprint					
				Mfr P/N	Mfr Name
105	1 each	103158-0001R	PS	RES,SMT 0201,0 OHM,5%,1/20 WATT MATL	R422
		r201-18p5x15		RC0201JR-070RL	Yageo
106	1 each	103158-1003R	PS	RES,SMT 0201,10K,5%,1/20 WATT MATL	R182
		r201-18p5x15		RC0201JR-0710KL	Yageo
107	111 each	103158-2200R	PS	RES,SMT 0201,22 OHM,5%,1/20 WATT MATL	R171, R173, R175, R176, R177, R180, R185, R362, R363, R364, R365, R366, R367, R368, R369, R370, R371, R372, R373, R374, R375, R376, R378, R379, R380, R381, R382, R383, R384, R385, R386, R387, R388, R389, R390, R391, R392, R393, R396, R397, R399, R400, R401, R403, R404, R405, R407, R408, R410, R411, R413, R100, R101, R102, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R120, R124, R125, R131, R132, R136, R137, R138, R140, R141, R142, R143, R144, R149, R150, R151, R152, R153, R155, R156, R157, R158, R159, R160, R161, R165, R168, R414, R415, R416, R417, R418, R419, R420, R421, R423, R424, R425, R427, R428, R429, R96, R97, R98, R99
		r201-6p6spc		RC0201JR-0722RL	Yageo
108	2 each	103413-1003R	PS	RES,SMT 0201,10K,1%,1/20 WATT MATL	R169, R172
		r201-18p5x15		RC0201FR-0710KL	Yageo

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		ION Footprint		Mfr P/N	Mfr Name
109	65 each	101370-0001R	PS	RES,SMT 0402,0 OHM,1/16 WATT MATL	R103, R128, R13, R15, R163, R188, R190, R196, R204, R205, R206, R207, R208, R209, R210, R211, R212, R213, R214, R215, R216, R259, R264, R27, R273, R274, R275, R291, R292, R293, R301, R302, R303, R314, R38, R398, R409, R41, R42, R43, R438, R439, R44, R441, R442, R444, R445, R446, R447, R448, R449, R45, R450, R457, R46, R466, R475, R476, R493, R55, R63, R70, R72, R85, R74
		r402-25		RC0402JR-070RL	Yageo
110	5 each	101370-1000R	PS	RES,SMT 0402,10 OHM,5%,1/16 WATT MATL	R22, R23, R237, R24, R25
		r402-25		RC0402JR-0710RL	Yageo
111	3 each	101370-1001R	PS	RES,SMT 0402,100 OHM,5%,1/16 WATT MATL	R248, R256, R473
		r402-25		RC0402JR-07100RL	Yageo
112	8 each	101370-1004R	PS	RES,SMT 0402,100K,5%,1/16 WATT MATL	R170, R239, R241, R412, R431, R437, R484, R50
		r402-25		RC0402JR-07100KL	Yageo

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		ION Footprint		Mfr P/N	Mfr Name
113	77 each	101370-1003R	PS	RES,SMT 0402,10K,5%,1/16 WATT MATL	R104, R119, R122, R123, R129, R130, R135, R139, R146, R147, R166, R167, R183, R184, R195, R197, R200, R201, R217, R220, R222, R238, R240, R245, R249, R260, R280, R281, R282, R290, R294, R295, R30, R305, R306, R309, R310, R313, R323, R332, R341, R342, R344, R345, R348, R350, R358, R359, R360, R430, R432, R433, R435, R440, R443, R451, R456, R460, R471, R472, R474, R477, R478, R479, R48, R498, R494, R496, R54, R68, R73, R82, R83, R90, R94, R95, R235
		r402-25		RC0402JR-0710KL	Yageo
114	16 each	101370-1002R	PS	RES,SMT 0402,1K,5%,1/16 WATT MATL	R145, R304, R308, R316, R322, R327, R331, R336, R340, R349, R352, R489, R495, R499, R64, R218
		r402-25		RC0402JR-071KL	Yageo
115	5 each	101370-2202R	PS	RES,SMT 0402,2.2K OHM,5%,1/16 WATT MATL	R14, R20, R258, R279, R289
		r402-25		RC0402JR-072K2L	Yageo
116	9 each	101370-2003R	PS	RES,SMT 0402,20K,5%,1/16 WATT MATL	R246, R247, R253, R254, R270, R271, R62, R71, R76
		r402-25		ERJ-2GEJ203X	Panasonic
117	12 each	101370-2200R	PS	RES,SMT 0402,22 OHM,5%,1/16 WATT MATL	R189, R191, R21, R29, R319, R324, R325, R329, R333, R338, R354, R355
		r402-25		RC0402JR-0722RL	Yageo
118	8 each	101370-2401R	PS	RES,SMT 0402,240 OHM,5%,1/16 WATT MATL	R223, R224, R225, R226, R227, R228, R229, R230
		r402-25		RC0402JR-07240RL	Yageo
119	1 each	101370-2703R	PS	RES,SMT 0402,27K OHM,5%,1/16 WATT MATL	R252
		r402-25		RC0402JR-0727KL	Yageo

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		ION Footprint		Mfr P/N	Mfr Name
120	8 each	101370-2002R r402-25	PS	RES,SMT 0402,2K,5%,1/16 WATT MATL	R17, R250, R251, R268, R269, R434, R436, R5 RC0402JR-072KL Yageo
121	6 each	101370-3301R r402-25	PS	RES,SMT 0402,330 OHM,5%,1/16 WATT MATL	R186, R257, R296, R297, R298, R299 RC0402JR-07330RL Yageo
122	4 each	101370-3002R r402-25	PS	RES,SMT 0402,3K,5%,1/16 WATT MATL	R317, R328, R337, R353 RC0402JR-073KL Yageo
123	4 each	101370-4702R r402-25	PS	RES,SMT 0402,4.7K OHM,5%,1/16 WATT MATL	R162, R164, R192, R193 RC0402JR-074K7L Yageo
124	4 each	101370-4703R r402-25	PS	RES,SMT 0402,47K OHM,5%,1/16 WATT MATL	R1, R2, R3, R426 RC0402JR-0747KL Yageo
125	8 each	101370-5103R r402-25	PS	RES,SMT 0402,51K OHM,5%,1/16 WATT MATL	R458, R459, R461, R462, R464, R467, R469, R470 ERJ-2GEJ513X Panasonic
126	2 each	102145-1212R r402-25	PS	RES,SMT 0402,1.21K,1%,1/16 WATT MATL	R361, R394 ERJ-2RKF1211X Panasonic
127	1 each	102145-1782R r402-25	PS	RES,SMT 0402,1.78K,1%,1/16 WATT MATL	R236 ERJ-2RKF1781X Panasonic
128	5 each	102145-1004R r402-25	PS	RES,SMT 0402,100K,1%,1/16 WATT MATL	R37, R4, R40, R52, R105 RC0402FR-07100KL Yageo
129	12 each	102145-1003R r402-25	PS	RES,SMT 0402,10K,1%,1/16 WATT MATL	R178, R194, R233, R243, R244, R34, R491, R87, R486, R487, R88, R485 RC0402FR-0710KL Yageo
130	1 each	102145-1103R r402-25	PS	RES,SMT 0402,11K OHM,1%,1/16 WATT MATL	R187 ERJ-2RKF1102X Panasonic
131	1 each	102145-1503R r402-25	PS	RES,SMT 0402,15K OHM,1%,1/16 WATT MATL	R490 ERJ-2RKF1502X Panasonic
132	1 each	102145-1783R r402-25	PS	RES,SMT 0402,17.8K OHM,1%,1/16 WATT MATL	R121 ERJ-2RKF1782X Panasonic

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133	3 each	102145-1002R	PS	RES,SMT 0402,1K,1%,1/16 WATT MATL	R219, R221, R334
		r402-25		RC0402FR-071KL	Yageo
134	1 each	102145-2154R	PS	RES,SMT 0402,215K,1%,1/16 WATT MATL	R65
		r402-25		ERJ-2RKF2153X	Panasonic
135	3 each	102145-2213R	PS	RES,SMT 0402,22.1K OHM,1%,1/16 WATT MATL	R67, R77, R80
		r402-25		ERJ-2RKF2212X	Panasonic
136	1 each	102145-2614R	PS	RES,SMT 0402,261K,1%,1/16 WATT MATL	R51
		r402-25		ERJ-2RKF2613X	Panasonic
137	1 each	102145-3162R	PS	RES,SMT 0402,3.16K,1%,1/16 WATT MATL	R234
		r402-25		ERJ-2RKF3161X	Panasonic
138	1 each	102145-3832R	PS	RES,SMT 0402,3.83K,1%,1/16 WATT MATL	R174
		r402-25		ERJ-2RKF3831X	Panasonic
139	1 each	102145-3013R	PS	RES,SMT 0402,30.1K OHM,1%,1/16 WATT MATL	R133
		r402-25		ERJ-2RKF3012X	Panasonic
140	1 each	102145-4222R	PS	RES,SMT 0402,4.22K,1%,1/16 WATT MATL	R66
		r402-25		ERJ-2RKF4221X	Panasonic
141	2 each	102145-4992R	PS	RES,SMT 0402,4.99K,1%,1/16 WATT MATL	R179, R35
		r402-25		ERJ-2RKF4991X	Panasonic
142	14 each	102145-4990R	PS	RES,SMT 0402,49.9 OHM,1%,1/16 WATT MATL	R198, R199, R320, R326, R330, R335, R339, R346, R351, R356, R452, R453, R454, R455
		r402-25		ERJ-2RKF49R9X	Panasonic
143	1 each	102145-5901R	PS	RES,SMT 0402,590 OHM,1%,1/16 WATT MATL	R86
		r402-25		ERJ-2RKF5900X	Panasonic
144	1 each	102145-6982R	PS	RES,SMT 0402,6.98K,1%,1/16 WATT MATL	R79
		r402-25		ERJ-2RKF6981X	Panasonic
145	1 each	102145-5902R	PS	RES,SMT 0402,5.9K,1%,1/16 WATT MATL	R395
		r402-25		ERJ-2RKF5901X	Panasonic

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		ION Footprint		Mfr P/N	Mfr Name
146	14 each	100642-7500R	PS	RES,SMT 0603,75 OHM,1%,1/16 WATT MATL	R12, R261, R262, R263, R28, R31, R33, R39, R6, R7, R8, R9, R10, R11
		r603-35x45		ERJ-3EKF75R0V	Panasonic
147	1 each	102145-8063R	PS	RES,SMT 0402,80.6K OHM,1%,1/16 WATT MATL	R53
		r402-25		CRCW040280K6FKED	Vishay Intertechnology
148	1 each	102145-8873R	PS	RES,SMT 0402,88.7K OHM,1%,1/16 WATT MATL	R78
		r402-25		ERJ-2RKF8872X	Panasonic
149	1 each	102145-4024R	PS	RES,SMT 0402,402K,1%,1/16 WATT MATL	R89
		r402-25		ERJ-2RKF4023X	Panasonic
150	2 each	102145-2004R	PS	RES,SMT 0402,200K OHM,1%,1/16 WATT MATL	R36, R93
		r402-25		RC0402FR-07200KL	Yageo
151	1 each	102145-4993R	PS	RES,SMT 0402,49.9K,1%,1/16 WATT MATL	R126
		r402-25		ERJ-2RKF4992X	Panasonic
152	2 each	100642-2211R	PS	RES,SMT 0603,221 OHM,1%,1/16 WATT MATL	R321, R347
		r603-35x45		ERJ-3EKF2210V	Panasonic
153	7 each	100642-3740R	PS	RES,SMT 0603,37.4 OHM,1%,1/16 WATT MATL	R272, R283, R284, R285, R286, R287, R288
		r603-35x45		ERJ-3EKF37R4V	Panasonic
154	1 each	100642-6342R	PS	RES,SMT 0603,6.34K OHM,1%,1/16 WATT MATL	R318
		r603-35x45		ERJ-3EKF6341V	Panasonic
155	1 each	100155-0001R	PS	RES,SMT 1206,0 OHM,1/8 WATT MATL	R357
		r1206-40x70		RC1206JR-070RL	Yageo
156	1 each	100155-0100R	PS	RES,SMT 1206,1 OHM,5%,1/8 WATT MATL	R92
		r1206-40x70		ERJ-8GEYJ1R0V	Panasonic
157	3 each	102598-0002R	PS	RES,SMT 1206,.02 OHM,2%,1/2 WATT MATL	R32, R47, R56
		r1206-40x70		RL1632T-R020-G	Susumu Co., Ltd.
158	7 each	100830-0025R	PS	RES,SMT 2512,.025 OHM,1%,1W MATL	R202, R231, R242, R69, R75, R81, R84
		R2512		WSL2512R0250FEA	Vishay Intertechnology

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159	1 each	101184-0010R	PS	SWITCH,DIP,SMT,HALF-PITCH,10 POS. MATL	SW3
		SW10-30X50		TDA10H0SB1R	C&K/Unimax, Inc.
160	2 each	101184-0002R	PS	SWITCH,DIP,SMT,HALF-PITCH,2 POS. MATL	SW4, SW5
		sw2-30x50-tda		TDA02H0SB1R	C&K/Unimax, Inc.
161	1 each	101184-0004R	PS	SWITCH,DIP,SMT,HALF-PITCH,4 POS. MATL	SW2
		sw4-30x50-tda		TDA04H0SB1R	C&K/Unimax, Inc.
162	1 each	100601-0001R	PS	SWITCH,PWB,DPDT,3 AMP,RIGHT ANGLE MATL	SW1
		SW-7201-DPDT-10073		7201MD9AQE	C&K/Unimax, Inc.
163	1 each	101215-0001R	PS	SWITCH,SMT,PUSHBUTTON,MOMENTARY,6mm MATL	SW6
		SW-40X126-EVQP1		EVQ9P105M	Panasonic
164	1 each	101576-0015R	PS	CONN,DB15,HD,RECEPTACLE,RA MATL	J2
		conn15-6547-181		1-1734530-3	Tyco Electronics
165	2 each	100558-0009R	PS	CONN,DB9,MALE,RIGHT ANGLE,.318 MATL	P10, P7
		CONN9D-6547-RT-M		2100-009P	PI Manufacturing Corp.
166	1 each	103166-0001R	PS	CONN,JACK,RJ45,GIGABIT,8 CONTACTS WITH MATL	J10
		amp-6605814		6605814-6	Tyco Electronics
167	1 each	100677-0004R	PS	CONN,MINI-DIN,FEMALE,4 POS. MATL	P1
		749181_1		5749181-1	Tyco Electronics
168	2 each	102930-0007R	PS	CONN,PLUG,7 POS.,VERTICAL,1.27MM,HIGH MATL	J11, J12
		molex-67491-002		67491-1032	Molex
169	1 each	102540-0015R	PS	CONN,RCA,RIGHT ANGLE,BLUE MATL	J6
		rcajack-CUI-RCJ-01		RCJ-015	CUI, Inc.
170	1 each	102540-0016R	PS	CONN,RCA,RIGHT ANGLE,GREEN MATL	J5
		rcajack-CUI-RCJ-01		RCJ-016	CUI, Inc.
171	1 each	102540-0012R	PS	CONN,RCA,RIGHT ANGLE,RED MATL	J7
		rcajack-CUI-RCJ-01		RCJ-012	CUI, Inc.

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172	1 each	102540-0014R rcajack-CUI-RCJ-01	PS	CONN,RCA,RIGHT ANGLE,YELLOW MATL RCJ-014	J4 CUI, Inc.
173	1 each	103275-0001R usb_stacked2	PS	CONN,RECEPTACLE,RIGHT ANGLE,DUAL USB MATL 72309-8034BLF	J13 Framatome Connectors International
174	1 each	101432-0004R MOLEX-8981	PS	CONN,SHROUDED,4 POS.,RIGHT ANGLE MATL 15-24-4441	J8 Molex
175	1 each	102190-0010R conn2x10-29x110-ftp	PS	CONN,SMT,HEADER,2X10,.05 PITCH,125 HEIGHT MATL FTR-110-03-G-D-LC-06	J15 Samtec, Inc.
176	1 each	101238-0001R PWR3-RASM712	PS	CONN,SMT,JACK,RIGHT ANGLE,POWER,2.5mm MATL RASM712TRP15X	J1 Switchcraft
177	4 each	101012-0001R st_3500	PS	CONN,SMT,JACK,STEREO,4 POS.,3.6mm MATL STX-3500-4NTR	P2, P3, P4, P5 Kycon, Inc.
178	1 each	103341-0001R pcie_smt_64	PS	CONN,SMT,RECEPTACLE,64 PIN,PCI EXPRESS MATL 10061913-101CLF	P8 Framatome Connectors International
179	1 each	103169-0001R hdmi-smt-w-flange	PS	CONN,SMT,RECEPTACLE,RIGHT ANGLE,TYPE MATL 10029449-001RLF	P6 Framatome Connectors International
180	1 each	102710-0001R conn-mmc-mhc-w21-601	PS	CONN,SMT,SD/MMC/RS-MMC MATL MHC-W21-601-LF	P9 Morethanall Co., Ltd.
181	2 each	101884-0030R qsh-030-01-f	PS	CONN,SMT,SOCKET,30x2,.5mm,.198H MATL QSH-030-01-L-D-A-K-TR	J16, J20 Samtec, Inc.
182	3 each	101884-0060R qsh-060-01-f	PS	CONN,SMT,SOCKET,60x2,.5mm,.198H MATL QSH-060-01-L-D-A-K	J17, J18, J19 Samtec, Inc.
183	1 each	103363-0001R conn21-6547-scart	PS	CONN,SOCKET,21 POS.,SCART MATL K-SCARTX-022	J9 Kycon, Inc.
184	9 each	100162-0001R tp1-10050	PS	TEST POINT,BLUE MATL 151-205-RC	TP1, TP5, TP6, TP13, TP16, TP17, TP23, TP25, TP26 Mouser Electronics

Parts List

ASSY,NETRA DDR3 EVM
SUBA

512870-0001R

Rev E

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Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		ION Footprint		Mfr P/N	Mfr Name
185	1 each	100115-0003R	PL	HEADER,3 X 1,VERTICAL,PIN SUBA	P11
		JUMP1X3-6040			
186	1 each	100116-0007R	PL	HEADER,7 X 2,VERTICAL,PIN SUBA	J14
		JUMP2X7-6040		2011-2X07G00SB/SN	Oupiin
187	1 each	101606-0048R	PS	SOCKET,TSOP48,ZIF,DUAL HINGE MATL	XU24
		skt-tsop48sm		980020-48-P2-K	Meritec
188	1 each	103578-0001R	PS	HEATSINK,ALUMINUM,FAN MOUNTABLE,31mm MATL	
				3-1212-3UBFA	Cool Innovations
189	1 IN	103524-0001R	PS	THERMAL TRANSFER TAPE,1" MATL	
				8815	3M Electronic Products Division
190	1 each	100320-0004R	PS	NUT,SS,4-40,SMALL PATTERN MATL	
191	1 each	100183-0004R	PS	WASHER,SPLIT,SS,#4 MATL	
192	1 each	100182-0002R	PS	WASHER,FLAT,SS,#2 MATL	
193	1 each	101511-0875R	PS	SCREW,PHILLIPS,FLAT,SS,4-40 X .875 MATL	
				0440X0875F8PHSSPS	Above Board Electronics,Inc.
194	1 each	513835-0001R	PL A	ASSY,FAN CABLE WITH 3 PIN CONNECTOR SUBA	
195	1 each	103583-0001R	PS	CABLE CLAMP,ADHESIVE BACKED MATL	
				LWC19-A-M14	Panduit
196	1 each	102239-0001R	PS	BUMPER,ROUND,NON-SLIP, .375 X .235 MATL	
				SJ61A2	3M Electronic Products Division
197	4 each	C0201-NOPOP	PS	NP	C705, C706, C708, C709
		c201-18p5x15			
198	3 each	C0402-NOPOP	PS	NP	C449, C790, C87
		c402-25			

Parts List

ASSY,NETRA DDR3 EVM
SUBA

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Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
ION Footprint					
				Mfr P/N	Mfr Name
199	1 each	R0201-NOPOP r201-18p5x15	PS	NP	R181
200	4 each	L0603-NOPOP l603-35x45	PS	NP	L22, L23, L24, L25
201	41 each	R0402-NOPOP r402-25	PS	NP	R106, R134, R148, R154, R16, R18, R19, R203, R255, R26, R265, R266, R267, R276, R277, R278, R307, R315, R343, R377, R402, R406, R463, R465, R468, R480, R497, R481, R482, R483, R49, R492, R57, R58, R59, R60, R61, R91, R232, R488, R127
202	1 each	C1210-NOPOP c1210-70x102	PS	NP	C54
203	1 each	C1206-NOPOP C1206-40X70	PS	NP	C355

Parts List

ASSY,NETRA DDR3 EVM
SUBA

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Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference	
		ION Footprint			Mfr P/N	Mfr Name
204	208 each	TP-20RD10-NO-POP	PS	NP	TP2M1, TP2M10, TP2M11, TP2M12, TP2M13, TP2M14, TP2M15, TP2M16, TP2M17, TP2M18, TP2M19, TP2M2, TP2M20, TP2M21, TP2M22, TP2M23, TP2M24, TP2M25, TP2M26, TP2M3, TP2M4, TP2M5, TP2M6, TP2M7, TP2M8, TP2M9, TP2MB1, TP2MB10, TP2MB11, TP2MB12, TP2MB13, TP2MB14, TP2MB15, TP2MB16, TP2MB17, TP2MB18, TP2MB19, TP2MB2, TP2MB20, TP2MB21, TP2MB22, TP2MB23, TP2MB24, TP2MB25, TP2MB26, TP2MB3, TP2MB4, TP2MB5, TP2MB6, TP2MB7, TP2MB8, TP2MB9, TP2MC1, TP2MC10, TP2MC11, TP2MC12, TP2MC13, TP2MC14, TP2MC15, TP2MC16, TP2MC17, TP2MC18, TP2MC19, TP2MC2, TP2MC20, TP2MC21, TP2MC22, TP2MC23, TP2MC24, TP2MC25, TP2MC26, TP2MC3, TP2MC4, TP2MC5, TP2MC6, TP2MC7, TP2MC8, TP2MC9, TP2MD1, TP2MD10, TP2MD11, TP2MD12, TP2MD13, TP2MD14, TP2MD15, TP2MD16, TP2MD17, TP2MD18, TP2MD19, TP2MD2, TP2MD20, TP2MD21, TP2MD22, TP2MD23, TP2MD24, TP2MD25, TP2MD26, TP2MD3, TP2MD4, TP2MD5, TP2MD6, TP2MD7, TP2MD8, TP2MD9, TPM1, TPM10, TPM11, TPM12, TPM13, TPM14, TPM15, TPM16, TPM17, TPM18, TPM19, TPM2, TPM20, TPM21, TPM22, TPM23, TPM24, TPM25,	

Parts List

ASSY,NETRA DDR3 EVM
SUBA

512870-0001R

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Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		ION Footprint			
				Mfr P/N	
					Mfr Name
					TPM26, TPM3, TPM4, TPM5, TPM6, TPM7, TPM8, TPM9, TPMB1, TPMB10, TPMB11, TPMB12, TPMB13, TPMB14, TPMB15, TPMB16, TPMB17, TPMB18, TPMB19, TPMB2, TPMB20, TPMB21, TPMB22, TPMB23, TPMB24, TPMB25, TPMB26, TPMB3, TPMB4, TPMB5, TPMB6, TPMB7, TPMB8, TPMB9, TPMC1, TPMC10, TPMC11, TPMC12, TPMC13, TPMC14, TPMC15, TPMC16, TPMC17, TPMC18, TPMC19, TPMC2, TPMC20, TPMC21, TPMC22, TPMC23, TPMC24, TPMC25, TPMC26, TPMC3, TPMC4, TPMC5, TPMC6, TPMC7, TPMC8, TPMC9, TPMD1, TPMD10, TPMD11, TPMD12, TPMD13, TPMD14, TPMD15, TPMD16, TPMD17, TPMD18, TPMD19, TPMD2, TPMD20, TPMD21, TPMD22, TPMD23, TPMD24, TPMD25, TPMD26, TPMD3, TPMD4, TPMD5, TPMD6, TPMD7, TPMD8, TPMD9
		tp-20RD10			
205	27 each	NO-POP	PS	NP	J3, MH1, MH2, MH3, MH4, MH5, MH6, MH7, MH8, MH9, TP10, TP11, TP12, TP14, TP15, TP18, TP19, TP2, TP20, TP21, TP22, TP24, TP3, TP4, TP7, TP8, TP9