



Assembly PN: 1014650 Rev B

Bill of Materials

BOM	Pages
OMAP-L138 SOM-M1, 128MB MOBILE DDR, 8MB NOR FLASH, POWER MEASUREMENT CIRCUITRY	4



BOM REPORT

Part Number 1014650

Part Description ASSEMBLY, PCB, OMAP-L138 SOM-M1, 128MB MDDR, 8MB SERIAL NOR FLASH, ETHERNET, TOUCH, POWER MEASUREMENT

Part Revision B

Part Number	Rev	Qty	Ref Des	Item Description	Initial MFG Name	Initial MFG Part Number
1014650	B			ASSEMBLY, PCB, OMAPL138 SOM, 1GBIT MDDR, 64MBIT FLASH, ENET, TOUCH, PWR MEAS		
1014681	B	0		ASSEMBLY DRAWING, OMAPL138 SOM WITH PWR MEAS		
1001329	-	1	C155	CAP, CERAMIC, 0.01UF, 16V, 0402	Panasonic	ECJ-0EB1C103K
1002396	-	85	C1-C4, C9-C12, C14, C16-C18, C25-C28, C30-C34, C38, C39, C41, C44, C46, C49, C56, C60, C61, C63-C65, C69, C75, C77, C81, C83, C87, C88, C93-C95, C97, C99, C101, C102, C104, C106, C110, C111, C113, C115, C116, C120, C122, C126, C128-C130, C135, C138, C142, C146, C151-C154, C156-C162, C166-C168, C170, C171, C174, C176-C179	CAP, CERAMIC, 0.1UF, 16V, X5R, 0402	AVX	0402YD104KAT2A
1006399	-	2	C66, C67	CAP, CERAMIC, 0.22UF, 10V, X5R, 0402	Murata	GRM155R61A224KE19D
1001330	-	1	C163	CAP, CERAMIC, 10PF, 50V, NPO, 0402	Kemet	C0402C100J5GACTU
1005620	B	19	C29, C47, C48, C50, C51, C57, C58, C80, C92, C100, C124, C131, C143, C164, C165, C169, C172, C180, C181	CAP, CERAMIC, 10UF, 6.3V, X5R, 0603	Panasonic	ECJ-1VB0J106M
1002955	-	2	C5, C6	CAP, CERAMIC, 18PF, 50V, NPO, 5%, 0402	MURATA	GRM1555C1H180JZ01D (ROHS)
1003982	-	3	C43, C45, C55	CAP, CERAMIC, 1UF, 6.3V, X5R, 0402	Murata	GRM155R60J105KE19D (ROHS)
1009836	-	5	C42, C52-C54, C62	CAP, CERAMIC, 2.2UF, 6.3V, X5R, 0402	Kemet	C0402C225K9PAC
1003902	-	4	C13, C37, C40, C68	CAP, CERAMIC, 22UF, 6.3V, X5R, 0805	TDK Corporation	C2012X5R0J226M (RoHS)
1005482	-	4	C7, C8, C35, C36	CAP, CERAMIC, 33PF, 50V, NPO, 0402	Panasonic	ECJ-0EC1H330J
1012473	-	3	J1-J3	CONNECTOR, HEADER, 100 PIN, .4MM PITCH, 1.5MM STACKHEIGHT	Hirose	DF40C-100DP-0.4V(51)
1006395	-	1	Y2	CRYSTAL, 24.0000MHZ, 18PF, SMT	CITIZEN	CS10-24.000MABJ-UT
1008355	-	2	Y4, Y5	CRYSTAL, 25MHZ, 25PPM, 3.2X2.5,SMT	ECS	ECS-250-20-33-A-E-L-TR

Part Number	Rev	Qty	Ref Des	Item Description	Initial MFG Name	Initial MFG Part Number
1001333	-	1	Y1	CRYSTAL, 32.768KHZ, 20PPM, IND TEMP, SMT	Fox	FSX327LF
1010618	A	0		DRAWING, LABEL IMAGE, LEAD-FREE LOGO		
1012775	-	3	FB1-FB3	FERRITE BEAD, 70 OHM @ 100MHZ, 3.5A, 0603	Murata	BLM18KG700TN1D
1011617	-	1	U10	IC, 200MA, HIGH PSRR, LDO, BGA	Texas Instruments	TPS79912YZU
1012634	-	7	U11-U17	IC, BI-DIRECTIONAL ZERO-DRIFT CURRENT SHUNT MONITOR, I2C, SOT23-8	Texas Instruments	INA219AIDCNR
1004669	-	3	U3, U7, U24	IC, BUFFER, 3-STATE, SOT (SC-70)	Texas Instruments	SN74LVC1G125DCKR
1012581	-	1	U4	IC, BUS TRANSCEIVER, 4BIT, DUAL-SUPPLY, 16QFN	Texas Instruments	SN74AVC4T245RGYR
1012504	-	1	U21	IC, DUAL BIDIRECTIONAL VOLTAGE-LEVEL TRANSLATOR, US8	Texas Instruments	PCA9306DCUR
1013188	-	1	U23	IC, DUAL VOLTAGE DETECTOR, SC70-5	Texas Instruments	TPS3805H33DCKR
1012663	-	1	U9	IC, PMIC, 2A POWER PATH, WITH TOUCH CONTROLLER, QFP-48	Texas Instruments	TPS65070RSL
1012614	B	1	U1	IC, PROCESSOR, OMAPL138, ARM9, 361-BGA, 0.65MM PITCH, 13X13MM PKG	Texas Instruments	OMAPL138
1012876	-	1	U20	IC, PROGRAMMABLE VCO, LOW JITTER, 3.3V, QFN-32	Texas Instruments	CDCM61001RHBT
1012961	-	1	U6	IC, SERIAL FLASH, 64MBIT, 2.7V - 3.6V, 8-VDFPN	Numonyx	M25P64-VME6TG
1012783	-	1	U19	IC, TRANSCEIVER, 10/100 ETHERNET PHY, MII/RMII, QFN-32	SMSC	LAN8710A-EZK-TR
1009436	-	1	U2	IC,DDR SRAM,1GBIT,MOBILE, 1.8V	Micron	MT46H64M16LFCK-6:A
1012829	-	3	L1-L3	INDUCTOR, 2.2UH, 1.8A, 30%, SMT	TDK	VLS252012T-2R2M1R3
1013327	A	0		LABEL, GLOSSY WHITE, HIGH TEMP, .750 IN X .250 IN		
1012676	B	1		LABEL, GLOSSY WHITE, HIGH TEMP, .750 IN X .375 IN, CUSTOM		
1012149	B	1		LABEL, MAC ADDRESS IDENTIFICATION, 2D, SINGLE		
1006494	F	1		LABEL, PART NUMBER, REVISION, SERIAL NUMBER, BAR CODE, ROHS		
1012719	-	1	Q1	MOSFET, P-CH, 12V, 4.1A, SOT23	Vishay	SI2333DS-T1-E3
1014606	A	1	PCB1	PCB, OMAPL138 SOM, WITH POWER MEASUREMENT CIRCUITRY		
1001368	-	15	R19, R75-R77, R109-R111, R130-R132, R160, R162-R165	RESISTOR, 0 OHM, 1/16W, 5%, 0402	Panasonic	ERJ-2GE0R00X
1014516	-	6	R87, R88, R91, R98, R105, R113	RESISTOR, 0.020 OHM, 1/5W, 1%, 0603	Vishay	WSL0603R0200FEA18

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1012684	-	1	R90	RESISTOR, 0.020 OHM, 1/8W, 1%, 0805	Vishay	WSL0805R0200FEA
1006388	-	10	R51, R52, R69, R92, R93, R106, R108, R114, R115, R166	RESISTOR, 1.0K OHM, 1/16W, 1%, 0402	PANASONIC	ERJ-2RKF1001X
1002628	-	2	R10, R11	RESISTOR, 10 OHM, 1/16W, 5%, 0402	Yageo	RC0402JR-0710RL
1006383	-	1	R68	RESISTOR, 100 OHM, 1/16W, 1%, 0402	PANASONIC	ERJ-2RKF1000X
1001336	-	1	R99	RESISTOR, 10K OHM, 1/16W, 5%, 0402	Dale	CRCW0402103JT
1009830	-	1	R79	RESISTOR, 12.1K OHM, 1/16W, 1%, 0402	Panasonic	ERJ-2RKF1212X
1010439	-	4	R100-R102, R157	RESISTOR, 150K OHM, 1/16W, 1%, 0402	Yageo	RC0402FR-07150KL
1012888	-	2	R153, R154	RESISTOR, 15K OHM, 1/10W, 5%, 0402	Panasonic	ERJ-2GEJ153X
1001374	-	26	R3, R17, R18, R20, R27, R31, R43-R50, R53-R62, R78, R117	RESISTOR, 22 OHM, 1/16W, 5%, 0402	Panasonic	ERJ-2GEJ220X
1003756	-	2	R151, R152	RESISTOR, 24.9 OHM, 1/16W, 1%, 0402	Panasonic	ERJ-2RKF24R9X (RoHS)
1002769	-	1	R103	RESISTOR, 301K OHM, 1/16W, 1%, 0402	Panasonic	ERJ-2RKF3013X (ROHS)
1002996	-	46	R21, R22, R25, R26, R28-R30, R63-R67, R70, R80-R85, R112, R118-R129, R133-R136, R143-R145, R147-R150, R155, R158, R161	RESISTOR, 4.7K OHM, 1/16W, 5%, 0402	Panasonic	ERJ-2GEJ472X
1002435	-	5	R71-R74, R107	RESISTOR, 49.9 OHM, 1/16W, 0.5%, 0402	Susumu	RR0510R-49R9-D
1012682	-	1	R89	RESISTOR, 910 OHM, 1/16 W, 1%, 0402	Panasonic	ERJ-2RKF9100X
1002428	-	4	R6-R9	RESISTOR, ARRAY (4) 22 OHM, 5%, SMT	Panasonic	EXB-28V220JX
1008783	-	1	R156	RESISTOR, ARRAY (4) 470 OHM, 5%, SMT	Panasonic	EXB-28V471JX
1014647	A	0		SCHEMATIC, OMAPL138 SOM, WITH POWER MEASURE-MENT CIRCUITRY		
1014694	A	0		SOFTWARE, RAW, U-BOOT, LINUX, & FILE SYSTEM, RELEASE 0.2, OMAPL138		
1014655	A	0		SOFTWARE, XML, OMAPL138, PWR MEAS, FCT SERVER, TEST PARAMETERS		
1003498	-	1	Q2	TRANSISTOR,NPN,40V,200MA,SOT-23	FAIRCHILD	MMBT3904