

# Bill of Materials

Project: Network FMC

Project Name: PRJ-NW1FMC

Revision: 2

BOM: 01

Variant: 00



Report Date: 6/7/2018

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#	Quantity	Designator	Description	Manufacturer 1	Manufacturer Part Number 1	Fitted	Notes
1	12	C1, C4, C5, C9, C10, C21, C31, C34, C35, C39, C40, C51	CAP CER 10UF 16V 10% X5R 0805	Samsung Electro-Mechanics America, Inc	CL21A106KOFNNNE	Fitted	
2	55	C2, C3, C6, C7, C8, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C24, C25, C26, C27, C28, C29, C30, C32, C33, C36, C37, C38, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C67, C68, C69, C71, C72	CAP CER 0.1UF 25V 10% X7R 0402	AVX Corporation	04023C104KAT2A	Fitted	
3	2	C22, C52	CAP CER 4.7UF 6.3V 10% X5R 0603	AVX Corporation	06036D475KAT2A	Fitted	
4	1	C23	CAP CER 560pF 50V 5% C0G 0603	TDK	C1608C0G1H561J080AA	Fitted	
5	2	C66, C70	CAP CER 47UF 10V 20% X5R 1206	TDK	CL31A476MPHNNNE	Fitted	
6	0	C73	CAP CER 220UF 6.3V 20% X5R 1210	Samsung Electro-Mechanics America, Inc	CL32A227MQVNNNE	Not Fitted	
7	1	CONN1	CONN SNGL-END ARRAY MALE 160POS	Samtec	ASP-134604-01	Fitted	
8	4	D1, D2, D5, D7	LED GREEN/RED BICOLOR 1210	Lite-On Inc	LTST-C155KGJRK	Fitted	
9	2	D3, D4	LED GREEN/YLW CLEAR 1210 SMD	Lite-On Inc.	LTST-C155KGJSKT	Fitted	
10	1	D6	LED YELLOW CLEAR 0603 SMD	Lite-On Inc.	LTST-C190YKT	Fitted	
11	4	D8, D9, D10, D11	DIODE SCHOTTKY 30V 2A SMB	ON Semiconductor	MBR5130LT3G	Fitted	
12	1	ESD1	ESD Bag	3M	=ESDBagPN	Fitted	-
13	4	FB1, FB2, FB3, FB4	FERRITE BEAD 60 OHM 1.7A 0402	Murata	BLM15PD600SN1D	Fitted	
14	2	J1, J2	CONN MAGJACK 1PORT 1000 BASE-T, I-TEMP	Bel Fuse	L829-1J1T-32	Fitted	
15	1	JP1	CONN HEADR BRKWAY .100 3POS STR, SINGLE ROW	Amphenol FCI	68001-403HLF	Fitted	
16	6	JT1, JT2, JT3, JT4, JT5, JT6	RES 1K OHM 1/16W 1% 0402 SMD-3 PAD JUMPER (1-2)	Panasonic Electronic Components	ERJ-2RKF1001X	Fitted	Position 1-2
17	1	JT7	RES 0.0 OHM 1/16W JUMP 0402 SMD-3 PAD JUMPER (1-2)	Panasonic Electronic Components	ERJ-2GE0R00X	Fitted	Position 1-2
18	1	L1	FIXED IND 1UH 2.05A 45 mOHM SMD	Murata	LQH32PN1R0NN0L	Fitted	
19	1	Label1	Label, Product	AES	PBA-NW1FMC-2-01-00	Fitted	-
20	1	Label2	Label, Serial Number	AES	TBD	Fitted	-
21	1	Label_ESD1	Label, ESD	AES	TBD	Fitted	-
22	1	PCB1	BARE PCB Part Number	AES	PCB-NW1FMC-2	Fitted	
23	2	Q1, Q11	TRANS NPN 40V 0.2A SOT-23	Fairchild/ON Semiconductor	MMBT3904	Fitted	
24	10	Q2, Q3, Q4, Q5, Q7, Q8, Q9, Q10, Q12, Q13	MOSFET N-CH 50V 200MA SOT23-3	Infineon Technologies	BSS138NH6327XTSA2	Fitted	
25	20	R1, R2, R3, R5, R7, R10, R21, R27, R39, R41, R43, R46, R57, R63, R93, R96, R107, R108, R109, R110	RES 10.0K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1002X	Fitted	
26	0	R4, R6, R9, R13, R22, R28, R40, R42, R45, R48, R58, R64	RES 1.00K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1001X	Not Fitted	
27	2	R8, R44	RES 12.1K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1212X	Fitted	
28	3	R11, R49, R90	RES 1.5K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1501X	Fitted	
29	1	R12	RES 84.5K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF8452X	Fitted	
30	0	R14, R23, R59, R94, R95, R99, R100, R101, R102, R115, R116	RES 0.0 OHM JUMP 0402 1/16W	Yageo	RC0402FR-070RL	Not Fitted	

31	0	R16, R18, R32, R52, R54, R68	RES 10.0K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1002X	Not Fitted	
32	18	R17, R20, R26, R29, R33, R34, R36, R53, R56, R62, R65, R69, R70, R72, R81, R98, R117, R118	RES 1.00K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1001X	Fitted	
33	2	R19, R55	RES 4.70K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF4701X	Fitted	
34	9	R24, R30, R60, R66, R97, R111, R112, R113, R114	RES 0.0 OHM JUMP 0402 1/16W	Yageo	RC0402FR-070RL	Fitted	
35	6	R25, R31, R61, R67, R83, R85	RES SMD 240 OHM 5% 1/16W 0402	Panasonic Electronic Components	ERJ-2GEJ241X	Fitted	
36	2	R35, R71	RES 2.2K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF2201X	Fitted	
37	2	R37, R38	RES 49.9 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF49R9X	Fitted	
38	1	R47	RES 330 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF3300X	Fitted	
39	1	R51	RES 40.2 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF40R2X	Fitted	
40	10	R73, R74, R75, R76, R77, R78, R79, R80, R105, R106	RES 221 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF2210X	Fitted	
41	1	R82	RES 1.74K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1741X	Fitted	
42	1	R84	RES 316 OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF3160X	Fitted	
43	2	R86, R91	RES 2.00K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF2001X	Fitted	
44	1	R87	RES SMD 3.3K OHM 5% 1/16W 0402	Panasonic Electronic Components	ERJ-2GEJ332X	Fitted	
45	1	R88	RES 4.02K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF4021X	Fitted	
46	1	R89	RES 3.00K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF3001X	Fitted	
47	2	R103, R104	RES 4.99K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF4991X	Fitted	
48	0	R119	RES 100 OHM 0201 1% 1/20W	Panasonic Electronic Components	ERJ-1GNF1000C	Not Fitted	
49	1	U1	IC COMP QUAD SGL SUPPLY 14TSSO	ON Semiconductor	LM2901DTBR2G	Fitted	
50	2	U2, U5	GIGABIT ETHERNET TRANSCEIVER WITH RGMII	Microchip	KSZ9031RNXIC	Fitted	
51	2	U3, U6	IC EEPROM 2KBIT 400KHZ 8SOIC	Microchip	24AA025E48-1/5N	Fitted	
52	1	U4	IC VREF SHUNT ADJ 8SOIC	ON Semiconductor	TL431AIDG	Fitted	
53	1	U7	IC REG BUCK 1.2V 0.6A SYNC 8MLF	Microchip	MIC23050-4YML-TR	Fitted	
54	1	U9	IC EEPROM 2KBIT 1MHZ 8SOIC	Atmel	AT24C02D-SSHM-T	Fitted	
55	2	Y1, Y2	OSC MEMS 25.000MHZ CMOS SMD, 2x2.5mm, I-Temp	Microchip	DSC1121D12-025.0000T	Fitted	
56	1	Y3	OSC MEMS 125.000MHZ LVDS SMD	Microchip	DSC1123C12-125.0000	Fitted	
<b>Approved</b>				<b>Notes</b>			