



Bill of materials

Table 1. AEK-MCU-C4MLIT2

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
1	1		Table 2. AEK-MCU-C4M2	AEK-MCU-C4M2	ST	
2	2		Table 3. AEK-CON-LTA2	AEK-CON-LTA2	ST	
3	1		Table 4. AEK-CON-LIT2	AEK-CON-LIT2	ST	
4	12		970150365	WA-SPAIE Plastic Spacer Stud, metric, internal/ external	WE	970150365
5	12		97790603211	WA-SCRW Pan Head Screw w. cross slot M3	WE	97790603211
6	12		61900811621	WR-WTB 2.54 mm Female Terminal Housing	WE	61900811621
7	148		61900113722DEC	WR-WTB 2.54 mm Female Crimp Contact	WE	61900113722DEC
8	4		60910213421	WR-PHD Jumper 2.54mm Dual	WE	60910213421
9	2		61900211621	WR-WTB 2.54 mm Female Terminal Housing	WE	61900211621
10	5		609002115121	WR-PHD 2.54 mm Jumper with Test Point & Pullback	WE	609002115121
11	12		60800213421	WR-PHD 2.00 mm Jumper with Test Point	WE	60800213421

Table 2. AEK-MCU-C4M2

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
1	9	C1, C23, C25, C35, C36, C81, C101, C109, C113	10uF	1206 - 50V - X5R Class II	WE	885012108022
2	49	C2, C4, C6, C8, C12, C17, C20, C29, C32, C38, C41, C44, C46, C48, C50, C52, C54, C57, C68, C71, C74, C78, C79, C80, C83, C86, C89, C91, C94, C96, C102, C104, C105, C106, C108, C112, C114, C117, C121, C122, C123, C124, C125, C126, C127, C132, C137, C138, C152	100nF	0603 - 50V - X7R Class II	WE	885012206095
3	2	C3, C11	3.3uF	1206 - 25V - X7R Class II	WE	885012208067

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
4	3	C5, C16, C28	22uF	0805 - 25V - X5R Class II	WE	885012107019
5	1	C7	1uF	0603 - 25V - X7R Class II	WE	885012206076
6	1	C9	220uF	Electrolytic Cap - 50V - 10x10.5	WE	865080657018
7	4	C10, C88, C128, C133	10uF	0805 - 25V - X5R Class II	WE	885012107027
8	4	C13, C14, C24, C26	6.8nF	0603 - 50V - X7R Class II	WE	885012206088
9	2	C15, C27	68pF	0603 - 50V - NP0 Class I	WE	885012006056
10	4	C18, C19, C30, C31	22uF	1210 - 25V - X7R Class II	WE	885012209074
11	6	C21, C33, C59, C61, C63, C65	47nF	0603 - 50V - X7R Class II	WE	885012206093
12	2	C22, C34	220pF	0603 - 50V - X7R Class II	WE	885012206079
13	24	C37, C40, C43, C45, C47, C49, C51, C53, C55, C56, C60, C62, C64, C66, C69, C72, C75, C84, C85, C103, C107, C111, C115, C118	10nF	0603 - 50V - X7R Class II	WE	885012206089
14	2	C39, C42	1.5uF	1206 - 25V - X7R Class II	WE	885012208065
15	3	C58, C67, C70	2.2uF	1206 - 25V - X7R Class II	WE	885012208066
16	1	C73	4.7uF	1206 - 50V - X7R Class II	WE	885012208094
17	6	C76, C77, C99, C100, C119, C120	22pF	0402 - 50V - NP0 Class I	WE	885012005057
18	8	C82, C87, C90, C92, C93, C95, C150, C151	1uF	0603 - 50V - X7R Class II	WE	885012206126
19	2	C97, C98	4.7nF	1812 - 2000V - X7R Class II	WE	885342211008
20	1	C110	100nF	0805 - 100V - X7R Class II	WE	885012207128
21	1	C116	4.7uF	0805 - 25V - X5R Class II	WE	885012107018
22	4	C129, C131, C134, C136	47pF	0603 - 50V - NP0 Class I	WE	885012006055
23	2	C130, C135	4.7nF	0603 - 50V - X7R Class II	WE	885012206087

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
24	11	C139, C140, C141, C142, C143, C144, C145, C146, C147, C148, C149	N.M.	0603	N.A.	N.A.
25	2	CN1, CN2	Con 2P	2.54mm - 1 row - KK254 - Male	WE	61900211121
26	1	CN3	116-40074TH	DIN 41612 Female 90°, type C, Part No. 116-40074TH	EPT	116-40074TH
27	1	D1	MMBZ5242BLT1G	12V Zener Voltage Regulators, 225mW	Onsemi	MMBZ5242BLT1G
28	1	D2	SMAJ24CA-TR, SMA	SMA TVS - 24VDC - Bidirectional	ST	SMAJ24CA-TR
29	2	D3, D25	MMSZ4684T1G	3.3V Zener Voltage Regulators, 500mW	Onsemi	MMSZ4684T1G
30	2	D4, D13	Blue	0805 - Led Blue - 3.2V	WE	150080BS75000
31	6	D5, D6, D7, D8, D9, D11	Green	0805 - Led Green - 3.2V	WE	150080GS75000
32	1	D10	Red	0805 - Led Red - 2V	WE	150080RS75000
33	1	D12	Yellow	0805 - Led Yellow - 2V	WE	150080YS75000
34	2	D14, D15	AVRH10C221KT1R5Y A8	Varistor, Automotive grade, 220V, 1.5pF, 0402	TDK	AVRH10C221KT1R5Y A8
35	5	D16, D17, D18, D19, D20	Amber	0805 - Led Amber - 2V	WE	150080AS75000
36	1	F1	0437003.WRA	437 Series – 1206 Fast-Acting Fuse	LittleFuse	0437003.WRA
37	1	J1	Con 2p 5.08_green	5.08mm - WR-TBL Series 2135 - Horizontal Entry Modular	WE	691213510002
38	1	J2	Con JTAG	2.54mm - IDC, Male Box Header WR-BHD, THT, Vertical	WE	61201421621
39	1	J3	RJ45	WE-RJ45 LAN Through Hole Reflow with intergated LED Green&Yellow	WE	74980111212
40	1	J4	Con 2p 5.00_blue	5.00mm - WR-TBL Serie 102 Horizontal Entry Modular	WE	691102710002
41	4	JP1, JP2, P1, P3	Jumper 2p Closed, Header 2p 2.54	2.54mm - Pin Header, THT, pitch 2.54mm, Single Row, Vertical, 2p, Closed, 2.54mm - WR-PHD Pin Header, THT, pitch 2.54mm, Single Row, Vertical, 2p	WE	61300211121
42	3	JP3, JP4, JP5	Jumper 3p	THT Vertical 3 pins Header, Pitch 2.54 mm, Single Row	WE	61300311121
43	10	JP6, JP7, JP8, JP9, JP16, JP17,	Jumper 2p Closed	2mm - WR-PHD 2.00 mm THT Pin Header	WE	62000211121

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
		JP18, JP19, JP20, JP21		Single Row, Vertical, 2p, Closed		
44	4	JP10, JP12, JP14, JP15	4p	WS-DISV Small Compact SMT Flat Actuator with Top Tape 1.27 mm - 4p	WE	416131160804
45	2	JP11, JP13	3p	WS-DISV Small Compact SMT Flat Actuator with Top Tape 1.27 mm - 3p	WE	416131160803
46	2	JP22, JP23	Jumper 3p	THT Vertical 3 pins Header, Pitch 2 mm, Single Row	WE	62000311121
47	2	L1, L2	22uH	WE-LHMI SMT Power Inductor – 6.6 x 6.6 x 4.8 - 2.75A	WE	74437349220
48	2	L3, L4	10	WE-CBF SMT EMI Suppression Ferrite Bead. 10Ohm, 2000mA	WE	742792011
49	3	L5, L7, L8	300	WE-CBF SMT EMI Suppression Ferrite Bead. 300 Ohm, 300mA	WE	742792640
50	4	L9, L10, L12, L13	60	WE-CBF SMT EMI Suppression Ferrite Bead. 60 Ohm, 500mA	WE	74279267
51	2	L11, L14	51uH	WE-SLM SMT Common Mode Line Filter - 51uH	WE	744242510
52	1	Q1	STL42P6LLF6, PowerFLAT 5x6	P-channel -60 V, 23 mΩ typ., -42 A STripFET F6 Power MOSFET in a PowerFLAT 5x6 package	ST	STL42P6LLF6
53	5	Q2, Q3, Q8, Q10, Q11	STR2N2VH5, SOT-23	N-channel 20 V, 0.025 Ω typ., 2.3 A STripFET™ H5 Power MOSFET in a SOT-23 package	ST	STR2N2VH5
54	2	Q4, Q5	2STR1160, SOT-23	Low voltage fast-switching NPN power transistor	ST	2STR1160
55	1	Q6	2STR2160, SOT-23	Low voltage fast-switching PNP power transistor	ST	2STR2160
56	2	Q7, Q9	STR2P3LLH6, SOT-23	P-channel -30 V, 48 mΩ typ., -2 A STripFET™ H6 Power MOSFET in a SOT-23 package	ST	STR2P3LLH6
57	1	R1	20K	0603 - ±1% - 0.1W	Panasonic	ERJ-3EKF2002V
58	28	R2, R28, R38, R42, R43, R63, R66, R73, R150, R153, R155, R157, R161, R162, R163, R164, R222, R267,	0, Closed	0603 - ±1% - 0.1W, Circuit Breaker - 0603 - ±1% - 0.1W	Panasonic	ERJ3GEY0R00V

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
		SB4, SB5, SB6, SB7, SB8, SB9, SB10, SB11, SB12, SB13				
59	19	R3, R18, R32, R49, R50, R56, R68, R76, R84, R98, R108, R125, R128, R160, R186, R187, R188, R239, R240	10K	0603 - $\pm 1\%$ - 0.2W	Panasonic	ERJP03F1002V
60	1	R4	180K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJ-UP3F1803V
61	1	R5	390K	0603 - $\pm 0.5\%$ - 0.25W	Panasonic	ERJ-UP3D3903V
62	1	R6	91K	0603 - $\pm 0.5\%$ - 0.25W	Panasonic	ERJ-UP3D9102V
63	1	R7	6.8K	0603 - $\pm 0.5\%$ - 0.25W	Panasonic	ERJ-UP3D6801V
64	2	R8, R17	8.2K	0603 - $\pm 1\%$ - 0.1W	Panasonic	ERJ-3EKF8201V
65	2	R9, R20	220	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F2200V
66	2	R10, R23	5.1K	0603 - $\pm 1\%$ - 0.1W	Panasonic	ERJ-3EKF5101V
67	8	R11, R40, R52, R59, R67, R69, R70, R151	1K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F1001V
68	1	R12	1.24K	0603 - $\pm 1\%$ - 0.1W	Panasonic	ERJ-3EKF1241V
69	12	R13, R15, R19, R21, R78, R82, R86, R92, R100, R104, R110, R114	2.49K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJ-UP3F2491V
70	2	R14, R27	10	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F10R0V
71	86	R16, R29, R30, R31, R46, R47, R123, R142, R144, R146, R148, R152, R154, R156, R167, R168, R189, R190, R191, R192, R193, R194, R195, R196, R197, R198, R199, R209, R211, R212, R213, R214, R215, R216, R217, R218, R219, R220, R221, R223, R224, R225, R226, R227, R228, R229, R230, R231, R232, R233, R234, R243,	100	0603 - $\pm 1\%$ - 0.125W	Panasonic	ERJH3EF1000V

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
		R245, R247, R248, R249, R250, R251, R252, R255, R256, R257, R258, R259, R260, R261, R262, R263, R264, R265, R266, R268, R269, R270, R271, R272, R274, R276, R277, R278, R279, R280, R281, R282, R283, R284				
72	12	R22, R26, R200, R201, R202, R203, R204, R205, R206, R207, R208, R210	N.M.	0402	N.A.	N.A.
73	20	R24, R48, R54, R58, R96, R118, R138, R139, R140, R141, R158, R169, R170, R172, R175, R177, R180, R236, R244, R246	N.M.	0603	N.A.	N.A.
74	4	R25, R55, R60, R61	2.2K	0603 - $\pm 1\%$ - 0.1W	Panasonic	ERJ-3EKF2201V
75	4	R33, R34, R35, R119	1.5K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJ-PA3F1501V
76	3	R36, R37, R39	3.9K	0603 - $\pm 1\%$ - 0.1W	Panasonic	ERJ3EKF3901V
77	2	R41, R51	100K	0603 - $\pm 1\%$ - 0.2W	Panasonic	ERJP03F1003V
78	26	R44, R83, R85, R87, R90, R93, R95, R97, R99, R101, R103, R105, R106, R107, R109, R111, R113, R115, R116, R117, R130, R132, R143, R145, R147, R149	0	0402 - 0.1W	Panasonic	ERJ-2GE0R00X
79	1	R45	4.7K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F4701V
80	6	R53, R181, R182, R183, R184, R185	680	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F6800V
81	9	R57, R120, R122, R124, R129, R131,	47K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F4702V

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
		R137, R171, R176				
82	1	R62	4.87K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJ-UP3F4871V
83	4	R64, R65, R71, R72	49.9	0402 - $\pm 0.1\%$ - 0.1W	Panasonic	ERA-2VEB49R9X
84	1	R74	10K	0402 - $\pm 1\%$ - 0.25W	Panasonic	ERJ-PA2F1002X
85	1	R75	1Meg	1206 - $\pm 1\%$ - 0.25W	WE	560112132011
86	1	R77	13K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJ-UP3F1302V
87	1	R79	6.2K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJ-UP3F6201V
88	4	R80, R89, R102, R112	5.76K	0603 - $\pm 1\%$ - 0.1W	Panasonic	ERJ-3EKF5761V
89	4	R81, R88, R91, R94	1.96K	0603 - $\pm 1\%$ - 0.1W	Panasonic	ERJ-3EKF1961V
90	2	R121, R126	N.M.	0603	N.A.	N.A.
91	5	R127, R165, R235, R237, R238	0	0603 - jumper - 1A	Panasonic	ERJH3G0R00V
92	2	R133, R134	49.9	1206 - $\pm 1\%$ - 0.66W	Panasonic	ERJP08F49R9V
93	1	R135	100K	0805 - $\pm 5\%$ - 0.25W	Panasonic	ERJT06J104V
94	1	R136	12.4K	0402 - $\pm 1\%$ - 0.1W	Panasonic	ERJ-2RK1242X
95	1	R159	232K	0603 - $\pm 1\%$ - 0.1W	Panasonic	ERJ-3EKF2323V
96	1	R166	34K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJ-UP3F3402V
97	4	R173, R174, R178, R179	60.4	0603 - $\pm 1\%$ - 0.1W	Panasonic	ERJ3EKF60R4V
98	1	S1	Switch_ON_OFF	Slide Switch 2 positions ON-ON - Set OPEN	NKK Switches	CS12ANW03
99	2	S2, S3	RESET, ButtonSwitch	Switch	WE	430152043826
100	3	S4, S5, S6	ButtonSwitch_black	Switch	WE	430182043816
101	1	U1	L99VR02JTR, PowerSSO 12	Automotive linear voltage regulator with configurable output voltage having 500 mA current capability	ST	L99VR02JTR
102	1	U2	L5963DN-EHT, PowerSSO 36	Automotive dual monolithic switching regulator with LDO and HSD	ST	L5963DN-EHT
103	1	U3	STEF05LAPUR, DFN10 3X3	Electronic fuse for 5 V line	ST	STEF05LAPUR
104	1	U4	STEF033APUR, DFN10 3X3	Electronic fuse for 3.3 V line	ST	STEF033APUR
105	1	U5	SPC58EC80E5QMC1Y, TQFP 144 20x20x1.0	32-bit Power Architecture MCU for Automotive General Purpose Applications - Chorus family	ST	SPC58EC80E5QMC1Y
106	1	U6	STM6315SDW13F, SOT-143 4	STMICROELECTRONICS - STM6315SDW13F - Reset Circuit, Active-Low, Open-Drain, 1V to 5.5V, 2.93V Threshold, 1 Monitor	ST	STM6315SDW13F

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
107	1	U7	DP83822H	DP83822 Robust, Low Power 10/100 Mbps Ethernet Physical Layer Transceiver	Texas Instruments	DP83822HRHBT
108	1	U8	LAN8651	10BASE-T1S MAC-PHY Ethernet Controller with SPI	Microchip	LAN8651B1T-E/LMXVAO
109	1	U9	TXU0304-Q1	TXU0304-Q1 Automotive 4-Bit Fixed Direction Voltage-Level Translator with Schmitt-Trigger Inputs and 3-State Outputs	Texas Instruments	TXU0304QPWRQ1
110	1	U10	TXS0102-Q1	2-Bit Bidirectional Voltage-Level Translator for Open-Drain and Push-Pull Applications	Texas Instruments	TXS0102QDCURQ1
111	1	U11	TXS0104E-Q1	TXS0104E-Q1 Automotive 4-Bit Bidirectional Voltage-Level Translator for Open-Drain and Push-Pull Applications	Texas Instruments	TXS0104EQPWRQ1
112	1	U12	SN74LVC1T45DCK	Single-Bit Dual-Supply Bus Transceiver With Configurable Voltage Translation and 3-State Outputs	Texas Instruments	SN74LVC1T45DCK
113	2	U13, U14	MCP2542WFD	CAN FD Transceiver with Wake-up Pattern (WUP) Option	Microchip	MCP2542WFD
114	1	X1	40Mhz	WE-XTAL Quartz Crystal, SMT, CFPX-104, 40MHz, +/-20ppm	WE	830059537
115	2	X2, X3	25Mhz	WE-XTAL Quartz Crystal, SMT, CFPX-104, 25MHz, +/-50ppm	WE	830033075

Table 3. AEK-CON-LTA2

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
1	4	C1, C7, C11, C18	22pF	0603 - 50V - NP0 Class I	WE	885012006053
2	4	C2, C8, C12, C17	N.M.	1206	N.A.	N.A.
3	4	C3, C4, C13, C14	100nF	0603 - 50V - X7R Class II	WE	885012206095
4	2	C5, C15	10nF	0603 - 50V - X7R Class II	WE	885012206089
5	6	C6, C9, C10, C16, C19, C20	1uF	0805 - 50V - X7R Class II	WE	885012207103
6	2	D1, D7	Amber	0805 - Led Amber - 2V	WE	150080AS75000
7	2	D2, D8	Yellow	0805 - Led Yellow - 2V	WE	150080YS75000
8	2	D3, D9	Blue	0805 - Led Blue - 3.2V	WE	150080BS75000
9	6	D4, D5, D6, D10, D11, D12	Green	0805 - Led Green - 3.2V	WE	150080GS75000

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
10	6	JP1, JP2, JP3, JP4, JP5, JP6	0	0805_Jumper 3p SMD, 0805_Jumper 3p Closed SMD	Vishay	RCC06030000Z0EA
11	2	P1, P4	Con 2p 3.5_green	WR-TBL Series 2141 - 3.50 mm Horiz. Entry Modular	WE	691214110002
12	2	P2, P5	Header 2p 2.54	2.54mm - WR-PHD Pin Header, THT, pitch 2.54mm, Single Row, Vertical, 2p	WE	61300211121
13	1	P3	Header 24p_angled_Male	WR-PHD Pin Header - Dua 24p, THT, angled, Male	WE	61302421021
14	8	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8	STR2N2VH5, SOT-23	N-channel 20 V, 0.025 Ω typ., 2.3 A STripFET™ H5 Power MOSFET in a SOT-23 package	ST	STR2N2VH5
15	4	R1, R2, R29, R30	60.4	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJ-UP3F60R4V
16	14	R3, R4, R5, R6, R8, R11, R25, R31, R32, R34, R35, R36, R39, R53	10K	0603 - $\pm 1\%$ - 0.2W	Panasonic	ERJP03F1002V
17	20	R7, R9, R10, R12, R13, R18, R19, R20, R21, R22, R33, R37, R38, R40, R41, R46, R47, R48, R49, R50	0	0603 - jumper - 1A	Panasonic	ERJH3G0R00V
18	8	R14, R15, R27, R28, R42, R43, R55, R56	750	0603 - $\pm 0.5\%$ - 0.25W	Panasonic	ERJUP3D7500V
19	4	R16, R17, R44, R45	1.1K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F1101V
20	6	R23, R24, R26, R51, R52, R54	N.M.	0603	N.A.	N.A.
21	2	T1, T2	125uH	Pulse Transformer 125uH, 1:1, 100kHz/100mV	WE	74941000
22	2	U1, U3	L9963T-TR, SO-16	Automotive general purpose SPI to isolated SPI transceiver	ST	L9963T-TR
23	2	U2, U4	USBLC6-2SC6Y, SOT23-6L	Automotive ESD protection for high speed interfaces in SOT23-6L	ST	USBLC6-2SC6Y

Table 4. AEK-CON-LIT2

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
1	1	CN1	103-40064TH	DIN 41612 Male 90°, type C, Part No. 103-40064TH	EPT	103-40064TH
2	12	CN2, CN3, CN4, CN5, CN6, CN7, CN8, CN9, CN10, CN11, CN12, CN13	Con 8p	2.54mm - 1 row - KK254 - Male	WE	61900811121
3	1	CN14	116-40074TH	DIN 41612 Female 90°, type C, Part No. 116-40074TH	EPT	116-40074TH
4	4	JP1, JP2, JP3, JP4	Jumper 4p_dual	WR-PHD Pin Header - Dual - 4p - 2.54mm	WE	61300421121
5	2	P1, P2	Socket 24p_angled_Male	WR-PHD Socket Header - Dual - 24p, THT, angled, Female	WE	613024243121

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