

Bill of materials
Table 1. AEK-MCU-SPC5LNK bill of materials

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	18	C1, C3, C7, C8, C9, C10, C11, C12, C13, C14, C15, C17, C19, C21, C22, C23, C24, C25	100nF	Capacitor X7R - 0603	WE	885012206095
2	2	C2, C4	10u	Capacitor X7R - 0603	WE	885012106031
3	2	C5, C6	18p	C0G Ceramic Multilayer Capacitor	TDK	C1608C0G1H180J080AA
4	3	C16, C18, C20	4u7	Capacitor X7R - 0603	WE	885012106012
5	1	CN1	Header 7X2 Female	Header, 7-Pin, Dual row (6+2.5+10mm)	Sullins	SFH11-PBPC-D07-ST-BK
6	6	D1, D2, D3, D4, D5, D6	150060GS55040	LED Green	WE	150060GS55040
7	4	L1, L2, L3, L4	74279267	Ferrite Bead 0603 60Ohm 500mA	WE	74279267
8	1	P1	629105150521	WR-COM Micro USB 2.0 SMT Type B Horizontal 5 Contacts High Current	WE	629105150521
9	1	P2	61300311021	2.54mm - WR-PHD Angled Pin Header, THT, pitch 2.54mm, Single Row, Vertical, 3p	WE	61300311021
10	3	R1, R14, R15	N.M.	Resistor 0603	N.A	N.A
11	2	R2, R3	10R	Resistor 0603	VISHAY	CRCW060310R0FKTA
12	1	R4	1k	Resistor 0603	BOURNS	CHP0603AFX-1001ELF.
13	1	R5	12k	Resistor 0603	PANASONIC	ERJU03F1202V
14	6	R6, R7, R8, R16, R17, R20	470	Resistor 0603	BOURNS	CR0603-JW-471ELF
15	5	R9, R10, R18, R21, R22	4k7	Resistor 0603	YAGEO	AC0603JR-074K7L
16	1	R11	10k	Resistor 0603	VISHAY	RCA060310K0FKEA
17	2	R12, R19	0R	Resistor 0603	PANASONIC	ERJPA3F1303V
18	1	R13	2k2	Resistor 0603	PANASONIC	ERJUP3J222V
19	2	TP1, TP2	N.M.	Headers & Wire Housings C-Grid SR Vt Pn 6.75 .75/2.90mm Au-F 1Ckt	N.M.	N.M.

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
20	9	TVS1, TVS2, TVS3, TVS4, TVS5, TVS6, TVS7, TVS8, TVS9	3.0V, SOD-882	ESD Suppressor WE-VE, VDC=5.0V	ST	ESDAVLC8-1BT2Y
21	1	U1	FT2232HL	FT2232HL	FTDI	FT2232HL-REEL
22	1	U2	USBLC6-2P6, SOT666	VERY LOW CAPACITANCE ESD PROTECTION	ST	USBLC6-2P6
23	1	U3	LD1117S33TR, SOT-223	Low drop positive voltage regulator	ST	LD1117S33TR
24	1	U4	M93S46XS, SO8	1K (x16) Serial Microwire Bus EEPROM With Block Protection	ST	M93S46-WMN6TP
25	3	U5, U6, U7	SN74LVC2T45DC TR	Dual-Bit Dual- Supply Bus Transceiver	TI	SN74LVC2T45DCTR
26	2	U8, U9	SN74LVC1T45DC K	Single-Bit Dual- Supply Bus Transceiver	TI	SN74LVC1T45DCK
27	1	X1	12MHz	WE-XTAL Quartz Crystal, SMT, CFPX-180, 12MHz, +/-10ppm	WE	830108206909

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