

Bill of materials

Table 1. STEVAL-AETKT4V1 bill of materials

Item	Qty	Ref.	Part/value	Description
1	1	Table 2		Main Board
2	1	Table 3		Daughter Board Gain20
3	1	Table 4		Daughter Board Gain50
4	1	Table 5		Daughter Board Gain100

Table 2. STEVAL-AET041V1B bill of materials

Item	Qty	Ref.	Part/value	Description	Manufacturer	Order code
1	1	C1	100nF	CAPACITOR CERAMIC, X7R, -55°C to 125°C	WURTH ELEKTRONIK	885012207128
2	1	C2	1µF	CAPACITOR CERAMIC, X7R, -55°C to 125°C	KYOCERA AVX	08051C105K4T2A
3	2	C3, C4	1nF	CAPACITOR CERAMIC, X7R, -55°C to 125°C	WURTH ELEKTRONIK	885012207116
4	4	C5, Cc1, Cc2, Cd	NC	CAPACITOR CERAMIC	Any	
5	2	D1, D2	NC	DIODE - TVS- SMAJ70A	Any	
6	2	J1, J3	SIP 1x3 MALE	CONNECTOR - HEADER, -40°C to 125°C	WURTH ELEKTRONIK	61300311121
7	1	J4	TERMINAL BLOCK	CONNECTOR - TERMINAL BLOCK	CAMDENBOSS	CTBP0708/2
8	1	J5	SIP 1X5 MALE	CONNECTOR - HEADER, -40°C to 125°C	WURTH ELEKTRONIK	61300511121
9	4	M-01, M-02, M-03, M-04	8MM	ANTI SLIP PAD, -34°C to 65°C	M3	SJ5076
10	8	PAD1, PAD2, PAD3, PAD4, PAD5, PAD6, PAD7, PAD8	-	MINI SOCKET, -65°C to 125°C	TE CONNECTIVITY	5050935-2
11	2	R1, R2	0	RESISTOR, -55°C to 175°C	PANASONIC	ERJH3G0R00V
12	1	R3	0	RESISTOR	WALSIN	MR08X000PTL
13	1	Rs1	TBD	RESISTOR - SHUNT		
14	1	Rs2	TBD	RESISTOR - SHUNT		OAR1 - R020FI
15	1	U2	TSC2020, MSO 8	IC - High Voltage, Precision, Bidirectional Current-sense amplifier MSO8	ST	TSC2020

Note: The STEVAL-AET041V1B board is supplied with the kit and is not available for separate sale.

Table 3. STEVAL-AET042V1B bill of materials

Item	Qty	Ref.	Part/value	Description	Manufacturer	Order code
1	1	C1	NC	CAPACITOR	Any	
2	2	J1, J2	4CTS	CI CONNECTOR - BREAKABLE MALE-MALE BARS, -55°C TO 125°C	SAMTEC	TS-104-G-A
3	1	U1	TSC2020, MSO 8	IC - High Voltage, Precision, Bidirectional Current-sense amplifier Gain x20r	ST	TSC2020

Note: The STEVAL-AET042V1B board is supplied with the kit and is not available for separate sale.

Table 4. STEVAL-AET043V1B bill of materials

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	1	C1	NC	CAPACITOR	Any	
2	2	J1, J2	4CTS	CI CONNECTOR - BREAKABLE MALE-MALE BARS, -55°C TO 125°C	SAMTEC	TS-104-G-A
3	1	U1	TSC2021, MSO 8	IC - High Voltage, Precision, Bidirectional Current-sense amplifier Gain x50r	ST	TSC2021

Note: The STEVAL-AET043V1B board is supplied with the kit and is not available for separate sale.

Table 5. STEVAL-AET044V1B bill of materials

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	1	C1	NC	CAPACITOR	Any	
2	2	J1, J2	4CTS	CI CONNECTOR - BREAKABLE MALE-MALE BARS, -55°C TO 125°C	SAMTEC	TS-104-G-A
3	1	U1	TSC2022, MSO 8	IC - High Voltage, Precision, Bidirectional Current-sense amplifier Gain x100r	ST	TSC2022

Note: The STEVAL-AET044V1B board is supplied with the kit and is not available for separate sale.

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