



Bill of Materials for the AMIS305XXGEVK Evaluation Kit

Quantity	Description
1	Evaluation Board
1	USB-to-CAN/SPI interface (isolated)
1	Two phase stepper motor with connector
1	Universal power supply: input 100 - 240V~47-63Hz 0.7A / output 12V= 2A
1	Storage box
1	SPI cable
1	CAN cable
1	USB A to B

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Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	Ceramic Multilayer X7R	0.33µF, 50V, -40 / +125[°C]	±10%	1206	TDK	C3216X7R1H334K160	Yes	Yes
C2, C10, C14, C16, C30	5	Ceramic Multilayer X7R	0.1µF, 10V, -40 / +125[°C]	±10%	0402	TDK	C1005X7R1A104K050	Yes	Yes
C3	1	Ceramic Multilayer X7R	10000pF, 10V, -40 / +125[°C]	±10%	0402	TDK	C1005X7R1C103K050	Yes	Yes
C4	0	DNP	10µF, 10V	±10%	1206	TDK	C3216X7R1A106K160	-	Yes
C5	0	DNP	4.7µF, 6.3V	±10%	1206	TDK	C3216X7R1C475K160	-	Yes
C9	1	Ceramic Multilayer X7R	0.047µF, 50V, -40 / +125[°C]	±10%	0603	TDK	C1608X7R1H473K080	Yes	Yes
C17	1	Ceramic Multilayer X7R	1µF, 50V, -40 / +125[°C]	±10%	1206	TDK	C3216X7R1H105K160	Yes	Yes
C60, C67	2	Ceramic Multilayer COG	1000pF, 50V, -40 / +125[°C]	±5%	0603	TDK	C1608C0G1H102J	Yes	Yes
C70	1	Ceramic Multilayer COG	100pF, 50V, -40 / +125[°C]	±5%	0603	TDK	C1608C0G1H101J	Yes	Yes
R1	1	Thick Film	820Ω, 0.063W, -40 / +125[°C]	±5%	0402	Various	Various	Yes	Yes
R2, R41, R51	3	Thick Film	1kΩ, 0.063W, -40 / +125[°C]	±1%	0603	Various	Various	Yes	Yes
R3, R4, R31, R40, R52	5	Thick Film	10kΩ, 0.063W, -40 / +125[°C]	±1%	0603	Various	Various	Yes	Yes
R5, R6	2	Thick Film	56Ω, 0.125W, -40 / +125[°C]	±0.5%	0805	Various	Various	Yes	Yes
R7	0	DNP	0.063W	±5%	0402	Various	Various	-	Yes
R8, R11, R12, R72	4	Thick Film	0Ω, -40 / +125[°C]	±5%	0603	Various	Various	Yes	Yes
R9, R60... R65	7	Thick Film	100Ω, 0.125W, -40 / +125[°C]	±5%	0603	Various	Various	Yes	Yes
R10, R73	0	DNP	-40 / +125[°C]	-	0603	Various	Various	-	Yes
R13	1	OAR3, Farnell: 120-0365	See datasheet, -40 / +125[°C]	See datasheet	See datasheet	WELWYN - OAR Series	OAR3	Yes	Yes
R74	1	Thick Film	5k6Ω, 0.063W, -40 / +125[°C]	±5%	0603	Various	Various	Yes	Yes
R71	0	DNP	0.063W, -40 / +125[°C]	±10%	See datasheet	Vishay	T73YU103KT20	-	Yes
R66... R70	5	Thick Film	47Ω, 0.063W, -40 / +125[°C]	±5%	0603	Various	Various	Yes	Yes
D1	1	Diode	MBRD640CTT4G	-	DPAK 3	ON Semiconductor	MBRD640CTT4G	No	Yes
D2, D4, D31, D51	4	Diode	BAS21LT	-	SOT-23	ON Semiconductor	BAS21LT	No	Yes
IC1	1	IC1	MC78M05BDT	-	DPAK-3	ON Semiconductor	MC78M05BDT	No	Yes
IC3	1	IC3	AMIS30663	-	SOIC8	ON Semiconductor	AMIS30663	No	Yes
IC4	0	DNP	NCP1117DT33	-	DPAK	ON Semiconductor	NCP1117DT33	No	Yes
IC5	1	IC5	MC74VHC126DR2G	-	SOIC14	ON Semiconductor	MC74VHC126DR2G	No	Yes
IC6	1	IC6	M74VHC1GT50DFTxG	-	TSOP5	ON Semiconductor	M74VHC1GT50DFTxG	No	Yes
IC60	0	DNP	NUP2105LT	-	SOT23	ON Semiconductor	NUP2105LT	No	Yes
LED1	1	LED	150 120 VS7 500 0	-	1206	Würth Elektronik	150 120 VS7 500 0	Yes	Yes
LED3	1	LED	150 120 RS7 500 0	-	1206	Würth Elektronik	150 120 RS7 500 0	Yes	Yes
LED4	0	LED	150 120 VS7 500 0	-	1206	Würth Elektronik	150 120 VS7 500 0	-	Yes
CON1	1	Connector			See datasheet	Harwin	DIL PC plug (9+9)	Yes, Check datasheet for maximum temperature	Yes
			Farnell: 978-9588	-					

CON2	1	Connector	Farnell: 978-9561	-	See datasheet	Harwin	DIL PC plug (7+7)	Yes, Check datasheet for maximum temperature	Yes
CON3A, CON3B	2	Connector	-	-	See datasheet	Würth Elektronik	691 102 710 002	Yes	Yes
CON4	1	Connector	Farnell: 224-959	-	See datasheet	Cliff Electronic Components	DC10A	Yes	Yes
CON5, CON8, CON11, CON12, CON14	5	Connector	Farnell: 497-150	-	See datasheet	Hirschmann	MPB1 Red	Yes	Yes
CON6, CON7	2	Connector	Farnell: 497-162	-	See datasheet	Hirschmann	MPB1 Black	Yes	Yes
CON9	1	Connector	-	-	See datasheet	Würth Elektronik	615 006 141 121	Yes	Yes
CON10	1	Connector	Farnell: 156-0167	-	See datasheet	NA	RJ11 Connector	Yes	Yes
CON15	1	Connector	-	-	See datasheet	Kycon	K202XHT-E9S-N	Yes	Yes
CON16, CON17	2	Connector	Farnell: 109-8345	-	See datasheet	Tyco	5177983-1	Yes, Header: 5177984-1 (Farnell code: 109-8335)	Yes
CON51	0	Connector	120-6013	-	See datasheet	NA	Jack SMB Straight	-	Yes
J1	0	DNP	-	-	See datasheet	Würth Elektronik	613 003 111 21	-	Yes
J3, J4, J5, J6	0	DNP	-	-	See datasheet	Würth Elektronik	613 002 111 21	-	Yes
J7	1	Jumper	-	-	See datasheet	Würth Elektronik	613 002 111 21	Yes	Yes
J51	1	Jumper	Place jumper on pin 1 and 2 (Würth Order Number 609 002 134 21)	-	See datasheet	Würth Elektronik	613 003 111 21	Yes	Yes
S1, S2	2	6x6 mm THT WS-TST	-	-	See datasheet	Würth Elektronik	430 186 043 716	Yes	Yes
TP1 ... TP19, TP25 ... TP33	28	Test Point	Farnell: 873-1128	-	See datasheet	NA	Test Point	Yes	Yes
-	4 per PCB	Support feet	Farnell: 116-5068	-	See datasheet	NA	Support feet	Yes	Yes

The AMIS-305xx Evaluation Board is designed for room temperature (25°C) operation.