

6 Bill of Materials (BOM), Layout, and Schematic

This section contains the complete BOM, printed circuit board (PCB) layouts, and schematic diagrams for the ADS131E08.

Board layouts are not to scale. These figures are intended to show how the board is laid out; they are not intended to be used for manufacturing ADS131E08 PCBs. NOTE:

6.1 Bill of Materials

Table 11 lists the bill of materials for the ADS131E08.

Table 11. ADS131E08 Bill of Materials

7, C11, C17, C39, 50, C68, C69, C68, C69, C30, C32, C48, C54, C59, C54, C54, C57, C78, C74, C77, C78, C29 8, C49, C61, C62, C6 6, C66, C65, C66, C65, C66, C65, C66, C66	Qty	Ref Des	Description	Manufacturer	Part Number
15 C1, C2, C3, C4, C5, C6, C11, C17, C39, C40, C41, C44, C50, C68, C69 10 C7, C8, C15, C19, C26, C28, C30, C32, C33, C34, C35, C36, C48, C54, C59 11 C10, C37, C38, C42, C43, C46, C47, C52, C36, C48, C57, C58 10 C12, C13, C14, C16, C18, C49, C61, C62, C67, C70, C71, C72, C73, C74, C77, C78 10 C20, C21, C22, C23, C24, C65, C66, C67, C70, C71, C72, C73, C74, C77, C78 2 C60, C63 1 J1 (Top side) 1 J1, J2 (Bottom side) 1 J3, Bottom side) 2 J6–J12 8 JP1, JP5–JP11 2 JP3, JP4 1 JP3, JP4 2 JP3, JP4	_	N/A	Printed Circuit Board	F	6527354
0 C7, C8, C15, C19, C26, C28, C30, C32, C33, C34, C35, C36, C48, C54, C59 1 C9 11 C10, C37, C38, C42, C43, C46, C47, C52, C53, C45, C56 10 C12, C13, C14, C16, C18, C49, C61, C62, C65, C66, C67, C70, C71, C72, C73, C74, C77, C78 0 C25, C27, C29 1 A C45, C51, C55, C56 1 J1, J2 (Bottom side) 1 J1, J2 (Bottom side) 1 J3 (Bottom side) 2 J8 2 JP1, JP5–JP11 8 JP1, JP5–JP11 0 JP2 1 JP3, JP4 1 JP3, JP4 1 JP3, JP4 1 JP1, JP5–JP12		1, C2, C3, C4, C5, C6, C11, C17, C39, C40, C41, C44, C50, C68, C69	CAP CER 1UF 25V 10% X5R 0603	Murata	GRM188R61E105KA12D
11 C10, C37, C38, C42, C43, C46, C47, C52, C53, C57, C58 10 C12, C13, C14, C16, C18, C49, C61, C62, C75, C76 10 C12, C13, C14, C16, C18, C49, C61, C62, C75, C76 10 C20, C21, C22, C23, C24, C64, C65, C66, C67, C70, C71, C72, C73, C74, C77, C78 10 C25, C27, C29 11 C45, C51, C55, C56 12 C60, C63 11 J1, J2 (Bottom side) 11 J1, J2 (Bottom side) 12 J4 13 (Bottom side) 14 J5-J12 15 JP1, JP5-JP11 16 JP2, JP4 17 JP3, JP4 18 JP1, JP5-JP11		7, C8, C15, C19, C26, C28, C30, C32, C33, C34, C35, C36, C48, C54, C59	Not installed		
11 C10, C37, C38, C42, C43, C46, C47, C52, C53, C57, C58 10 C12, C13, C14, C16, C18, C49, C61, C62, C75, C76 16 C20, C21, C22, C23, C24, C64, C65, C66, C67, C70, C71, C72, C73, C74, C77, C78 2 C67, C70, C71, C72, C73, C74, C77, C78 2 C60, C63 1 J1 (Top side) 1 J1, J2 (Bottom side) 1 J3, (Bottom side) 2 J4 8 J5–J12 8 J5–J12 0 JP2 0 JP2 1 JP3, JP4	_	60	CAP CER 22UF 6.3V 10% X5R 0805	Taiyo Yuden	JMK212BJ226KG-T
10 C12, C13, C14, C16, C18, C49, C61, C62, C75, C76 16 C20, C21, C22, C23, C24, C64, C65, C66, C67, C70, C71, C72, C73, C74, C77, C78 0 C25, C27, C29 2 C31 0 C31 1 J1 (Top side) 1 J1, J2 (Bottom side) 1 J1, J2 (Bottom side) 0 J4 8 J5–J12 0 JP2 0 JP2 0 JP1 0 JP2			CAP CER 10UF 10V 10% X5R 0805	Murata	GRM219R61A106KE44D
16 C20, C21, C22, C23, C24, C64, C65, C66, C67, C70, C71, C72, C73, C74, C77, C78 0 C25, C27, C29 0 C31 2 C60, C63 0 D1-D16 1 J1, J2 (Bottom side) 1 J3, (Bottom side) 0 J4 8 J5-J12 8 JP1, JP5-JP11 0 JP2 0 JP2		_	CAP CER 0.1UF 50V 10% X7R 0603	Murata	GRM188R71H104KA93D
0 C25, C27, C29 C31 2 C31 C60, C63 D1-D16 1 J1, J2 (Bottom side) 1 J3 (Bottom side) 0 J4 8 J5-J12 8 JP1, JP5-JP11 0 JP2 0 JP2 0 JP3, JP4			CAP CER 470PF 50V C0G 5% 0603	TDK	C1608C0G1H471J
C31 C4 C45, C51, C55, C56 C60, C63 C60, C63 C7 C1 C60, C63 C7 C60, C63 C7 C1 C1 C1 C1 C1 C1 C2 C2 C45, C51, C55, C56 C60, C63 C60, C63 C1 C1 C1 C1 C1 C1 C1 C2 C2 C45, C51 C50 C60, C53 C60, C63 C60, C60	0	C25, C27, C29	Not Installed		
4 C45, C51, C55, C56 2 C60, C63 0 D1-D16 1 J1, J2 (Bottom side) 1 J3 (Bottom side) 0 J4 8 J5-J12 8 JP1, JP5-JP11 0 JP2 0 JP2 0 JP1	0	C31	Not Installed		
2 C60, C63 0 D1-D16 1 J1 (Top side) 1 J1, J2 (Bottom side) 1 J3 (Bottom side) 0 J4 8 J5-J12 8 J5-J12 0 JP2 2 JP3, JP4 0 JP12	4	C45, C51, C55, C56	CAP CER 2.2UF 6.3V 10% X5R 0603	Murata	GRM185R60J225KE26D
1 J1 (Top side) 1 J1, J2 (Bottom side) 1 J3 (Bottom side) 0 J4 8 J5–J12 8 J5–J12 8 JP1, JP5–JP11 0 JP2 0 JP3, JP4	2	C60, C63	CAP CER 100UF 10V 20% X5R 1210	Taiyo Yuden	LMK325BJ107MM-T
1 J1 (Top side) 1 J1, J2 (Bottom side) 1 J3 (Bottom side) 0 J4 8 J5–J12 8 JP1, JP5–JP11 0 JP2 2 JP3, JP4	0	D1-D16	Not Installed		
1 J1, J2 (Bottom side) 1 J3 (Bottom side) 0 J4 8 J5–J12 8 JP1, JP5–JP11 2 JP3, JP4 0 JP12	-	J1 (Top side)	10 Pin, Dual Row, SM Header (20 Pos.)	Samtec	TSM-110-01-T-DV-P
1 J3 (Bottom side) 0 J4 8 J5–J12 8 JP1, JP5–JP11 0 JP2 0 JP3, JP4	1	J1, J2 (Bottom side)	10 Pin, Dual Row, SM Header (20 Pos.)	Samtec	SSW-110-22-F-D-VS-K
0 J4 J5-J12 8 J5-J12 0 JP1, JP5-JP11 2 JP3, JP4 0 JP12 0 J	1	J3 (Bottom side)	5 Pin, Dual Row, SM Header (10 Pos.)	Samtec	SSW-105-22-F-D-VS-K
8 J5–J12 8 JP1, JP5–JP11 0 JP2 2 JP3, JP4 0 JP12	0	J4	Not Installed		
8 JP1, JP5–JP11 0 JP2 2 JP3, JP4 0 JP12	8	J5 - J12	TERMINAL BLOCK 3.5MM 2POS PCB	On Shore	ED555/2DS
0 JP2 2 JP3, JP4 0 JP12	8	JP1, JP5-JP11	3 Position Jumper1" spacing	Samtec	TSW-103-07-T-S
2 JP3, JP4 0 JP12	0	JP2	Not Installed		
D JP12	2	JP3, JP4	2 Position Jumper1" spacing	Samtec	TSW-102-07-T-S
	0	JP12	Not Installed		