

Bill of Materials

TI DESIGNS
TIDA-00352 SDI Video Aggregation

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	53	C192, C198, C199, C200, C205, C206, C210, C211, C212, C213, C214, C215, C216, C217, C218, C219, C220, C221, C222, C223, C224, C225, C247, C249, C652, C653, C657, C658, C659, C660, C661, C662, C663, C664, C665, C666, C667, C668, C672, C673, C674, C675, C676, C677, C678, C679, C680, C681, C691, C692, C693, C193, C195	0.1 μ F	Capacitors	Murata Electronics North America	GRM033R60J104ME19D		0201	
2	3	C615, C690, C695	1.0 μ F	Capacitors	Tdk Corporation	C0603X5R0J105M		0201	
3	1	C682	0.022 μ F	Capacitors	Murata Electronics North America	GRM155R71E223KA61D		0402	
4	57	C141, C142, C143, C144, C145, C146, C147, C148, C149, C150, C151, C152, C153, C163, C164, C165, C166, C167, C168, C169, C170, C171, C172, C173, C174, C188, C189, C295, C297, C298, C299, C301, C617, C619, C621, C623, C625, C627, C629, C638, C639, C640, C641, C642, C643, C644, C645, C646, C647, C648, C649, C650, C651, C655, C656, C670, C671	0.1 μ F	Capacitors	Tdk Corporation	C1005X7R1C104K		0402	
5	19	C190, C274, C275, C278, C279, C280, C281, C282, C283, C286, C302, C303, C304, C614, C654, C669, C685, C689, C694	1.0 μ F	Capacitors	Taiyo Yuden	LMK105BJ105KV-F		0402	
6	1	C684	10 μ F	Capacitors	Murata	GRM155R60J106ME44D		0402	
7	1	C683	220pF	Capacitors	Venkel	C0402X7R500-221KNE		0402	
8	2	C35, C49	0.015 μ F	Capacitors	Venkel	C0603X7R500-153KNE		0603	
9	3	C686, C687, C688	0.1 μ F	Capacitors	Murata Electronics North America	GRM188R71H104KA93D		0603	
10	8	C19, C26, C31, C45, C66, C73, C602, C609	1.0 μ F	Capacitors	Tdk Corporation	C1608X7R1C105K		0603	
11	4	C21, C28, C603, C610	1000pF	Capacitors	Murata Electronics North America	GCM1885C1H102JA16D		0603	
12	2	C70, C77	10pF	Capacitors	Avx Corporation	06031A100JAT2A		0603	
13	8	C16, C23, C30, C44, C65, C72, C601, C608	4.7 μ F	Capacitors	Tdk Corporation	C1608X5R0J475K/0.80		0603	

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14	11	C87, C91, C98, C101, C111, C115, C121, C125, C130, C140, C633	10000pF	Capacitors	Murata Electronics North America	GRM21BR72A103KA01L		0805	
15	18	C80, C84, C93, C97, C107, C108, C117, C118, C127, C137, C616, C618, C620, C622, C624, C626, C628, C630	10µF	Capacitors	Taiyo Yuden	EMK212BJ106KG-T		0805	
16	1	C634	10µF	Capacitors	Taiyo Yuden	EMK212BJ106KG-T		0805	
17	3	C635, C636, C637	10µF	Capacitors	Taiyo Yuden	EMK212BJ106KG-T		0805	
18	2	C296, C300	22µF	Capacitors	Tdk Corporation	C2012X5R0J226M/1.25		0805	
19	11	C86, C90, C95, C100, C110, C114, C120, C124, C129, C139, C632	0.1µF	Capacitors	Murata Electronics North America	GRM319R71H104KA01D		1206	
20	19	C20, C27, C34, C48, C69, C76, C85, C89, C94, C99, C109, C113, C119, C123, C128, C138, C606, C613, C631	1.0µF	Capacitors	Yageo America	CC1206KKX7R8BB105		1206	
21	8	C18, C25, C33, C47, C68, C75, C605, C612	10µF	Capacitors	Tdk Corporation	C3216X7R1C106K		1206	
22	9	C17, C24, C32, C46, C67, C74, C136, C604, C611	68µF	Capacitors	Tdk Corporation	C3225X5R0J686M		1210	
23	8	C15, C22, C29, C43, C64, C71, C600, C607	100µF	Capacitors	Murata Electronics North America	GRM43SR60J107ME20L		1812	
24	23	R292, R294, R451, R491, R565, R566, R567, R568, R569, R570, R571, R572, R573, R574, R575, R576, R577, R578, R579, R580, R581, R582, R777	0.0 (Zero Ohm)	Resistors	Panasonic - Ecg	ERJ-1GE0R00C		0201	
25	8	R667, R668, R672, R673, R686, R687, R691, R692	130	Resistors	Panasonic - Ecg	ERJ-1GEF1300C		0201	
26	16	R676, R677, R678, R679, R680, R681, R682, R683, R695, R696, R697, R698, R699, R700, R701, R702	150	Resistors	Panasonic - Ecg	ERJ-1GEF1500C		0201	
27	1	R779	3.16K	Resistors	Panasonic - Ecg	ERJ-1GEF3161C		0201	
28	1	R778	5.49K	Resistors	Panasonic - Ecg	ERJ-1GEF5491C		0201	
29	8	R665, R666, R670, R671, R684, R685, R689, R690	82.5	Resistors	Panasonic - Ecg	ERJ-1GEF82R5C		0201	
30	63	R273, R274, R275, R276, R277, R279, R283, R285, R286, R287, R296, R297, R308, R309, R459, R460, R461, R462, R463, R466, R486, R508, R509, R510, R511, R532, R533, R621, R622, R629, R630, R632, R633, R651, R652, R653, R654, R655, R656, R659, R660, R661, R662, R663, R664, R704, R720, R721, R722, R727, R754, R755, R756, R757, R765, R766, R767, R768, R769, R770, R771, R788, R789	0.0 (Zero Ohm)	Resistors	Panasonic - Ecg	ERJ-2GE0R00X		0402	
31	3	R551, R641, R644	100	Resistors	Panasonic - Ecg	ERJ-2RKF1000X		0402	
32	10	R546, R548, R708, R709, R730, R731, R738, R739, R746, R747	100K	Resistors	Yageo America	RC0402FR-07100KL		0402	
33	2	R258, R259	20.0K	Resistors	Panasonic - Ecg	ERJ-2RKF2002X		0402	

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34	11	R278, R280, R281, R282, R284, R616, R705, R710, R711, R776, R792	249	Resistors	Venkel	CR0402-16W-2490FT		0402	
35	4	R288, R289, R306, R307	4.02K	Resistors	Vishay/Dale	CRCW04024K02FKED		0402	
36	36	R245, R270, R300, R301, R302, R303, R304, R305, R556, R557, R558, R559, R560, R561, R562, R563, R564, R614, R631, R642, R645, R648, R669, R688, R706, R707, R714, R715, R716, R717, R750, R751, R752, R753, R786, R787	4.99K	Resistors	Venkel	CR0402-16W-4991FT		0402	
37	1	R703	402	Resistors	Panasonic - Ecg	ERJ-2RKF4020X		0402	
38	2	R549, R553	44.2K	Resistors	Panasonic - Ecg	ERJ-2RKF4422X		0402	
39	13	R247, R248, R249, R250, R251, R252, R253, R254, R255, R619, R620, R643, R646	49.9K	Resistors	Venkel	CR0402-16W-4992FT		0402	
40	7	R269, R613, R712, R713, R723, R735, R743	0.0 (Zero Ohm)	Resistors	Panasonic - Ecg	ERJ-3GEY0R00V		0603	
41	6	L106	0.0 (Zero Ohm)	Resistors	Panasonic - Ecg	ERJ-3GEY0R00V		0603	
42	6	R50, R67, R171, R188, R603, R607	1.13K	Resistors	Yageo America	RC0603FR-071K13L		0603	
43	1	R371	1.21K	Resistors	Panasonic - Ecg	ERJ-3EKF1211V		0603	
44	10	R538, R540, R545, R547, R732, R733, R740, R741, R748, R749	100	Resistors	Panasonic - Ecg	ERJ-3EKF1000V		0603	
45	5	R244, R541, R729, R737, R745	100K	Resistors	Yageo America	RC0603FR-07100KL		0603	
46	2	R242, R246	130	Resistors	Panasonic - Ecg	ERJ-3EKF1300V		0603	
47	1	R120	2.80K	Resistors	Panasonic - Ecg	ERJ-3EKF2801V		0603	
48	2	R610, R611	3.01	Resistors	Venkel	CR0603-10W-3R01FT		0603	
49	3	R118, R169, R186	3.57K	Resistors	Panasonic - Ecg	ERJ-3EKF3571V		0603	
50	4	R52, R69, R604, R608	4.02K	Resistors	Panasonic - Ecg	ERJ-3EKF4021V		0603	
51	1	R84	4.12K	Resistors	Yageo	RC0603FR-074K12L		0603	
52	1	R86	4.53K	Resistors	Panasonic - Ecg	ERJ-3EKF4531V		0603	
53	16	R49, R66, R83, R117, R168, R185, R239, R241, R539, R602, R606, R718, R719, R725, R734, R742	4.99K	Resistors	Panasonic - Ecg	ERJ-3EKF4991V		0603	
54	1	R612	47	Resistors	Panasonic - Ecg	ERJ-3EKF47R0V		0603	
55	5	R243, R543, R728, R736, R744	49.9	Resistors	Panasonic - Ecg	ERJ-3EKF49R9V		0603	
56	1	R465	49.9K	Resistors	Venkel	CR0603-16W-4992FT		0603	
57	4	R600, R601, R605, R609	88.7	Resistors	Panasonic - Ecg	ERJ-3EKF88R7V		0603	
58	2	R542, R544	0.0 (Zero Ohm)	Resistors	Yageo America	RC0805JR-070RL		0805	
59	10	L1, L2, L3, L4, L5, L6, L7, L8, L9, L14	0.0 (Zero Ohm)	Resistors	Koa Speer	RK73Z2ETTE		1210	
60	6	L100, L101, L102, L103, L104, L105	1000	Filters	Murata Electronics North America	BLM18HD102SN1D		0603	
61	2	L15, L16	4.7µH	Inductors_Coils_Chokes	Tdk Corporation	NLV32T-4R7J-PF		1210	
62	1	D28	LED - Blue Diffuse	Optoelectronics	Avago Technologies Us Inc	HSMR-C170		0805	
63	12	D11, D14, D15, D16, D49, D100, D101, D102, D104, D106, D108, D110	LED - Green Diffuse	Optoelectronics	Avago Technologies Us Inc	HSMG-C170		0805	
64	2	D48, D111	LED - Orange Diffuse	Optoelectronics	Avago Technologies Us Inc.	HSMD-C170		0805	
65	8	D10, D12, D13, D50, D51, D105, D107, D109	LED - Red Diffuse	Optoelectronics	Lumex Opto/Components Inc	SML-LXT0805IW-TR		0805	

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66	2	D52, D103	LED - Yellow Diff	Optoelectronics	Lumex Opto/Components Inc	SML-LXT0805YW-TR		0805	
67	1	D9	BAT 60A E6327	Discrete Semiconductor Products	Infineon Technologies	BAT 60A E6327		SOD-323	
68	14	Q3, Q4, Q5, Q6, Q7, Q11, Q12, Q100, Q101, Q102, Q103, Q104, Q105, Q106	N - Channel	Discrete Semiconductor Products	Fairchild Semiconductor	FDV301N		SOT-23-3	
69	7	U38, U93, U94, U106, U109, U111, U113	NPN	Discrete Semiconductor Products	Zetex Inc	ZXTD09N50DE6TA		SOT-23-6	
70	1	U1	TLK10022	Integrated Circuits	Texas Instruments	TLK10022CTR		144-FCBGA	
71	2	U104, U105	CDCLVP1204	Integrated Circuits	Texas Instruments	CDCLVP1204RGTT		16-HQFN	
72	3	U40, U41, U64	TXB0108PWR	Integrated Circuits	Texas Instruments	TXB0108PWR		20-TSSOP	
73	1	U43	TXS0108EPW	Integrated Circuits	Texas Instruments	TXS0108EPW		20-TSSOP	
74	8	U8, U10, U12, U16, U22, U24, U101, U102	TPS74401RGWT	Integrated Circuits	Texas Instruments	TPS74401RGWT		20-VQFN	
75	1	U42	TCA6424RGJR	Integrated Circuits	Texas Instruments	TCA6424ARGJR		32-QFN	
76	1	U100	CDCM6208V1RG	Integrated Circuits	Texas Instruments	CDCM6208V1RGZ		48-HQFN	
77	1	U107	SN74LVC1G08D	Integrated Circuits	Texas Instruments	SN74LVC1G08DBVR		SOT-23-5	
78	1	U103	TLV70225DBVT	Integrated Circuits	Texas Instruments	TLV70225DBVT		SOT-23-5	
79	2	U114, U115	TLV70233DBVT	Integrated Circuits	Texas Instruments	TLV70233DBVT		SOT-23-5	
80	5	U37, U92, U108, U110, U112	TPS3125J18DBV	Integrated Circuits	Texas Instruments	TPS3125J18DBVR		SOT-23-5	
81	1	U36	SN74AVCH1T45	Integrated Circuits	Texas Instruments	SN74AVCH1T45DCKR		SOT-23-6	
82	4	K1, K2, K3, K4	SPST-NO	Relays	Panasonic Electric Works	AQY221R2TY		4-VSSOP	
83	1	Y10	30.72Mhz	Crystals	Ndk-America	NZ2016SA_30.72MHz		SMT Crystal	
84	1	Y11	31.25Mhz	Crystals	Ndk-America	NZ2016SA_31.25MHz		SMT Crystal	
85	2	SW18, SW19	2 SPST	Switches	Itt Cannon - C&K	TDA02H0SB1		0.05" Pitch	
86	1	SW11	10 SPST	Switches	Itt Cannon - C&K	TDA10H0SB1		16 SMD Half Pitch	
87	4	SW10, SW13, SW14, SW15	PB SPST Off-Mo	Switches	Omron Electronics Inc-Ecb Div	B3U-1100P		3.00mm x 2.50mm	
88	2	SW12, SW16	4 SPST	Switches	Itt Cannon - C&K	TDA04H0SB1R		4 pos	
89	1	SW17	8 SPST	Switches	Itt Cannon - C&K	TDA08H0SK1		8 pos	
90	3	JMP36, JMP100, JMP101	1 X 2	Connectors	Samtec	HTSW-150-08-G-S		0.1"	
91	4	JMP35, JMP41, JMP42, JMP62	1 X 3	Connectors	Samtec	HTSW-150-08-G-S		0.1"	
92	1	JMP77	1 X 4	Connectors	Samtec	HTSW-150-08-G-S		0.1"	
93	3	JMP50, JMP103, JMP105	2 X 2	Connectors	Samtec	HTSW-150-08-G-D		0.1x0.1"	
94	1	JMP61	2 X 4	Connectors	Samtec	HTSW-150-08-G-D		0.1x0.1"	
95	2	JMP47, JMP48	2 X 5	Connectors	Samtec	HTSW-150-08-G-D		0.1x0.1"	
96	2	JMP102, JMP104	2 X 6	Connectors	Samtec	HTSW-150-08-G-D		0.1x0.1"	
97	1	J101	2 X 20 - Mini Edg	Connectors	Samtec	MEC1-120-02-F-D-A		1.00mm	
98	1	J100	2 X 30 - Mini Edg	Connectors	Samtec	MEC1-130-02-F-D-A		1.00mm	
99	1	P26	Power Jack	Connectors	Cui Inc	PJ-002AH		2.1mm X 5.5mm	
100	2	P1, P14	Banana Plug - Me	Connectors	Emerson Network Pwr Connectivity Sol	108-0740-001		4mm	
101	1	J73	1888247-1	Connectors	Amp/Tyco	1888247-1		Receptacle	

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102	4	J5, J6, J7, J8	Edge Launch	Connectors	Rosenberger	32K243-40ML5		RF Screw Type SMA	
103	2	J72, J102	ASP-134486-01	Connectors	Samtec	ASP-134486-01		Special Made Part	
104	1	XJ73	SFP Cage	Connectors	Tyco Electronics / Amp	1489669-1		T/H - R/A - Press-Fit	
105	10	J41, J42, J43, J44, J45, J46, J47, J48, J103, J104	32K141-40ML5	Connectors	Rosenberger	32K141-40ML5		T/H_SMT SMA	
106	23		Shunt	Hardware	Kobiconn	151-8000-E		0.1" SP	
107	8	Standoff	ECA-1HM101	Hardware	Samtec	SO-1015-03-01-02		4-40 Hex - M/F	
108	4	Screws	0.25" - Stainless S	Hardware	Building Fasteners	PMSSS 440 0025 PH		4-40 Phillips Panhead	
109	4	Standoff	0.5" - Aluminum	Hardware	Keystone Electronics	2027		4-40 Round - F/F	
110	8	C194, C196, C201, C202, C203, C204, C191, C197	DNI	Undefined Category	Dni	dni		DNI	
111	2	R784, R785	DNI	Undefined Category	Dni	dni		DNI	
112	2	R780, R781	DNI	Undefined Category	Dni	dni		DNI	
113	64	R496, R497, R498, R499, R674, R675, R693, R694, R782, R783, R293, R295, R298, R299, R623, R624, R634, R635, R636, R637, R649, R650, R726, R758, R759, R760, R761, R762, R763, R764, R240, R256, R257, R262, R263, R472, R473, R615, R617, R618, R625, R626, R627, R628, R638, R647, R657, R658, R772, R773, R774, R775, R790, R791, R793, R794, R795, R796, R476, R477, R290, R291, R268, R639, R640, R724	DNI	Undefined Category	Dni	DNI		DNI	
114	16	TH1, TH2, TH3, TH4, TH5, TH6, TH7, TH8, TH9, TH10, TH11, TH12, TH13, TH14, TH15, TH16	DNI	Undefined Category	Dni	dni		DNI	

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