

Bill of Materials

TI DESIGNS
TIDA-00309 DisplayPort Video Aggregation

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint	
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	0.1µF	Capacitors	Murata Electronics North America	GRM033R60J104ME19D	0201	
2	3	C615, C690, C695	1.0µF	Capacitors	Tdk Corporation	C0603X5R0J105M	0201	
3	1	C682	0.022µF	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	0.1µF	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	1.0µF	Capacitors	Taiyo Yuden	LMK105BJ105KV-F	0402	
6	1	C684	10µF	Capacitors	Murata	GRM155R60J106ME44D	0402	
7	1	C683	220pF	Capacitors	Venkel	C0402X7R500-221KNE	0402	
8	2	C35, C49	0.015µF	Capacitors	Venkel	C0603X7R500-153KNE	0603	
9	3	C686, C687, C688	0.1µF	Capacitors	Murata Electronics North America	GRM188R71H104KA93D	0603	
10	8	C19, C26, C31, C45, C66, C73, C602, C609	1.0µF	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	4.7µF	Capacitors	Tdk Corporation	C1608X5R0J475K/0.80	0603	
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	

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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
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

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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 Diffu	Optoelectronics	Avago Technologies Us Inc	HSMR-C170	0805
63	12	D11, D14, D15, D16, D49, D100, D101, D102, D104, D106, D108, D110	LED - Green Diffu	Optoelectronics	Avago Technologies Us Inc	HSMG-C170	0805
64	2	D48, D111	LED - Orange Dif	Optoelectronics	Avago Technologies Us Inc.	HSMD-C170	0805
65	8	D10, D12, D13, D50, D51, D105, D107, D109	LED - Red Diffu	Optoelectronics	Lumex Opto/Components Inc	SML-LXT0805IW-TR	0805
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	TLK10022	144-FCBGA
71	2	U104, U105	CDCLVP1204	Integrated Circuits	Texas Instruments	CDCLVP1204	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	TCA6424RGJR	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"

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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 - Metal	Connectors	Emerson Network Pwr Connectivity Sol	108-0740-001	4mm
101	1	J73	1888247-1	Connectors	Amp/Tyco	1888247-1	Receptacle
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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