

Bill of Materials

TI DESIGNS

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DM385 IP-CAMERA

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
IPC8	1		Printed Circuit Board		SAT0008	Any	-	-
C1, C2, C6, C7, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C68, C69, C91, C92, C198, C200, C208, C209, C212, C213, C214, C215, C216, C217, C218, C219, C220, C221, C232, C233, C238, C242, C243, C248, C249, C250, C256, C261, C262, C263, C264, C266, C270, C271, C272, C273, C274, C282, C286, C287, C288, C296, C297, C298, C302, C303, C304, C310, C311, C312, C313, C314, C315, C316, C317, C318, C319, C320, C321, C329, C330, C331, C332, C333, C334, C335, C336, C337, C338, C339, C340, C341, C342, C343, C344, C345, C346, C347, C348, C349, C350, C351, C352, C353, C354, C355, C356, C357, C358, C359, C360, C361, C362, C363, C372, C373	143	0.1µF	CAP, 0.1uF, 25V, 10%, X5R 0201	0201	C0603X5R1E104K030B	TDK Corporation		
C3, C4, C5	3	0.01µF	CAP, 0.01uF, 25V, 10%, X5R 0201	0201	GRM033R61E103KA12D	Murata Electronics		
C8, C9, C202, C203, C204, C205, C206, C207	8	1uF	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0402	0402	GRM155R61A105KE15D	MuRata		
C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C23, C70, C76, C78, C80, C382	18	0.1uF	CAP, CERM, 0.1uF, 10V, +/-10%, X5R, 0402	0402	C1005X5R1A104K	TDK		
C22, C85, C210, C246	4	10uF	CAP, CERM, 10uF, 6.3V, +/-20%, X5R, 0603	0603	C0603C106M9PACTU	Kemet		
C69	1	680pF	CAP, CERM, 680pF, 25V, +/-5%, C0G/NP0, 0402	0402	C1005C0G1E681J	TDK		
C75	1	10uF	CAP, CERM, 10uF, 10V, +/-20%, X5R, 1206	1206	C3216X5R1A106M	TDK		
C79	1	1000pF	CAP, CERM, 1000pF, 50V, +/-10%, X5R, 0402	0402	GRM155R61H102KA01D	MuRata		
C81, C82, C83, C84	4	22uF	CAP, CERM, 22uF, 6.3V, +/-20%, X5R, 0805	0805	C2012X5R0J226M	TDK		
C196, C197, C199, C201	4	18pF	CAP, CERM, 18pF, 50V, +/-5%, C0G/NP0, 0402	0402	GRM1555C1H180JA01D	MuRata		
C211, C247, C268, C269, C292, C293, C294, C295, C308, C309, C328, C374	12	22uF	CAP, CERM, 22uF, 10V, +/-20%, X5R, 0805	0805	LMK212BJ226MG-T	Taiyo Yuden		
C222, C223, C224, C225, C226, C227, C228, C229, C234, C235, C239, C244, C245, C251, C252, C253, C257, C260, C265, C267, C275, C276, C277, C278, C279, C283, C289, C290, C291, C299, C300, C301, C305, C306, C307, C322, C323, C324, C325, C326, C327	41	1nF	CAP, 1000pF, 25V, 10%, X5R 0201	0201	C0603X5R1E102K030B	TDK Corporation		
C230, C231, C236, C237, C240, C241, C254, C255, C258, C259, C280, C281, C284, C285	14	2.2uF	CAP, CERM, 2.2uF, 10V, +/-10%, X5R, 0603	0603	GRM188R61A225KE34D	MuRata		
C364, C365, C366, C367, C369, C371	6	22uF	CAP, CERM, 22uF, 6.3V, +/-10%, X5R, 0805	0805	JMK212BJ226KG-T	Taiyo Yuden		
C368	1	100uF	CAP, TA, 100uF, 6.3V, +/-20%, 0.7 ohm, SMD	3528-21	T495B107M006ATE700	Kemet		
C370	1	0.22uF	CAP, CERM, 0.22uF, 10V, +/-10%, X5R, 0402	0402	GRM155R61A224KE19D	MuRata		
J1, J2	2		FFC/FPC, 36 Pos, Stright, Vertical, 0.5mm, Connector		3-1734742-6	TE Connectivity		
J3	1		FFC/FPC Conector, 16 Pin Right Angle, 0.5mm, SMT		54548-1671	Molex		
JSUB1, JSUB2	2		Female Dual Row Header, Board-to-Board, 72Pos, 1.27x1.27mm, SMT Connector, Alignment Holes		CLP-136-02-L-D-A	Samtec Inc		
L2	1		FILTER CHIP 75 OHM 3A 1806		BLM41PG750SN1L	Murata Electronics North Ame		
L3, L4, L5, L6, L7, L8, L9, L10, L11	9		INDUCTOR 2.2UH 160MA 20% 0603		GLFR1608T2R2M-LR	TDK Corporation		
L12	1		INDUCTOR 1.0UH 230MA 20% 0603		GLFR1608T1R0M-LR	TDK Corporation		
L13	1	22uH	Inductor, Shielded Drum Core, Ferrite, 22uH, 0.7A, 0.16 ohm, SMD	MSS5131	MSS5131-223MLB	Coilcraft		
R1, R2, R3, R4, R5, R6, R7, R8, R9, R11, R19, R21, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R43, R82, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100, R101, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121, R122, R159, R160, R163, R164, R185, R187, R188, R189, R205	74	22	RES, 22 ohm, 1%, 0.05W, 0201	0201	CRCW020122R0FNED	Vishay-Dale		
R42, R44, R46, R52, R58, R68, R69, R71, R72, R74, R75, R76, R77, R78, R79, R80, R81, R129, R193, R199, R202, R207, R211	23	10k0	RES, 10k ohm, 1%, 0.05W, 0201	0201	CRCW020110K0FKED	Vishay-Dale		
R45, R47, R48, R51, R56	5	1k0	RES, 1.0k ohm, 1%, 0.05W, 0201	0201	CRCW02011K00FKED	Vishay-Dale		
R83, R102, R161, R162, R176, R177, R182, R194, R195, R204	10	0	RES, 0 ohm, jumper, 0.05W, 0201	0201	CRCW02010000Z0ED	Vishay-Dale		
R124, R125, R131, R132	4	49.9	RES, 49.9 ohm, 1%, 0.063W, 0402	0402	CRCW040249R9FKED	Vishay-Dale		
R133, R134	2	240	RES, 240 ohm, 5%, 0.063W, 0402	0402	CRCW0402240RJNED	Vishay-Dale		
R157, R158, R178, R179, R180, R181, R196	7	2.2k	RES, 2.2k ohm, 1%, 0.05W, 0201	0201	CRCW02012K20FKED	Vishay-Dale		
R166	1	124	RES, 124 ohm, 1%, 0.063W, 0402	0402	CRCW0402124RFKED	Vishay-Dale		
R168, R191	2	10k	RES, 10k ohm, 5%, 0.063W, 0402	0402	CRCW040210K0JNED	Vishay-Dale		
R169	1	22	RES, 22 ohm, 5%, 0.063W, 0402	0402	CRCW040222R0JNED	Vishay-Dale		
R183	1	1.07k	RES, 1.07k ohm, 1%, 0.063W, 0402	0402	CRCW04021K07FKED	Vishay-Dale		
R184	1	2.7k	RES, 2.7k ohm, 5%, 0.063W, 0402	0402	CRCW04022K70JNED	Vishay-Dale		
R186	1	4.7k	RES, 4.7k ohm, 5%, 0.063W, 0402	0402	CRCW04024K70JNED	Vishay-Dale		
R197	1	15k	RES, 15k ohm, 5%, 0.1W, 0603	0603	CRCW060315K0JNEA	Vishay-Dale		
R198	1	54.9k	RES, 54.9k ohm, 1%, 0.1W, 0603	0603	CRCW060354K9FKEA	Vishay-Dale		
R208, R209	2	0	RES, 0 ohm, 5%, 0.063W, 0402	0402	CRCW04020000Z0ED	Vishay-Dale		
R210, R212	2	47k	RES, 47k ohm, 5%, 0.063W, 0402	0402	CRCW040247K0JNED	Vishay-Dale		
R213	1	2.21k	RES, 2.21k ohm, 1%, 0.063W, 0402	0402	CRCW04022K21FKED	Vishay-Dale		
RA1, RA2, RA3, RA4, RA5, RA6	6		Resistor Array, 51 Ohm, 25V, 5%, 0402 Array		741C083510JP	CTS Electronic Components		
U1	1		DaVinci Digital Media Processor		DM385AAR11F	Texas Instruments	DM388AAARD11FP	Texas Instruments
U2	1		OSC MEMS 24.576 MHZ 1.8V SMD		TC-24.576MDD-T	TXC Corp		
U3	1		NAND FLASH, 2GBIT, 63 VFBGA		MT29F2G16ABBEAH4:E	Micron Technology Inc		
U4	1		SINGLE POSITIVE AND GATE SC-70		SN74LVC1G08-DCKR	Texas Instruments		
U5, U6	2		2Gb DDR3 SDRAM 128Kx16		MT41K128M16JT-125-K	Micron Technology Inc		
U16	1		IC VOLT SUPERVISOR 0.9V SOT23-6		TPS3808G09DBV	Texas Instruments		
U17	1		IC BUS TRANSCEIVER TRI-ST 2B 8VSSOP	8-VFSOP (0.091", 2.30mm Width)	SN74AVC2145DCUR	Texas Instruments		
U19	1		IC REG BUCK SYNC ADJ 3A 8-SO	8-SOIC (0.154", 3.90mm Width) Exposed Pad	TPS5432DDAR	Texas Instruments		

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
U20	1		IC REG SINK/SOURCE DDR 10SON		TPS51206DSQR	Texas Instruments		
U21	1		IC VOLT SUPERVISOR 1.2V SOT23-6		TPS3808G12DBV	Texas Instruments		
Y1	1		Crystal Resonator 20.000MHz 10pF SMD		7M-20.000MEEQ-T	TXC Corporation		
Y2	1		Crystal Resonator 22.579MHz 8pF SMD		CX3225GB22579D0HEQZ1	AVX Corporation		
C182, C183, C379	0	0.1uF	CAP, CERM, 0.1uF, 10V, +/-10%, X5R, 0402	0402	C1005X5R1A104K	TDK		
C378	0	1000pF	CAP, CERM, 1000pF, 25V, +/-10%, X5R, 0402	0402	GRM155R61E102KA01D	MuRata		
C380, C381	0	1uF	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0603	0603	C0603C105K8PACTU	Kemet		
D1	0		IC VREF SHUNT PREC ADJ SOT-23-3	TO-236-3, SC-59, SOT-23-3	TLV431ACDBZR	Texas Instruments		
R49, R50, R53, R54, R57, R59, R60, R61, R62, R63, R64, R65	0	1k0	RES, 1.0k ohm, 1%, 0.05W, 0201	0201	CRCW02011K00FKED	Vishay-Dale		
R55, R192	0	0	RES, 0 ohm, jumper, 0.05W, 0201	0201	CRCW02010000Z0ED	Vishay-Dale		
R66, R67, R70, R73, R203	0	10k0	RES, 10k ohm, 1%, 0.05W, 0201	0201	CRCW020110K0FKED	Vishay-Dale		
R167, R170	0	10k	RES, 10k ohm, 5%, 0.063W, 0402	0402	CRCW040210K0JNED	Vishay-Dale		
R171	0	1.00k	RES, 1.00k ohm, 1%, 0.063W, 0402	0402	CRCW04021K00FKED	Vishay-Dale		
R172	0	7.50k	RES, 7.50k ohm, 1%, 0.063W, 0402	0402	CRCW04027K50FKED	Vishay-Dale		
R173, R175, R200, R201	0	0	RES, 0 ohm, 5%, 0.063W, 0402	0402	CRCW04020000Z0ED	Vishay-Dale		
R174	0	4.99k	RES, 4.99k ohm, 1%, 0.063W, 0402	0402	CRCW04024K99FKED	Vishay-Dale		
R206	0	22	RES, 22 ohm, 1%, 0.05W, 0201	0201	CRCW020122R0FNED	Vishay-Dale		
U18	0		IC REG LDO 1.1V .15A SC70-5		TPS71711DCKR	Texas Instruments		

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.

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