

iMX233-OLinuXino-Micro Rev.D-1.0

Bill Of Materials

Picture	Position	Supplier/Part Number	Value	Unit price, USD	Qty	Extended price, USD
	C1, C2, C9, C10, C11, C13, C15, C17, C19, C20, C21, C27, C28 , C29, C40, C42, C43 , C44, C47	DIGIKEY/ 490-7611-1-ND	CAP CER 22UF 6.3V X5R 0603	0.17	19	3.17
	C4, C6, C7, C12, C14, C16, C18, C22, C25, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C41	DIGIKEY/ 399-1095-1-ND	0.1 μ F \pm 10% 10V Ceramic Capacitor X7R 0603 (1608 Metric)	0.03	20	0.58
	C3	DIGIKEY/ 1276-3303-1-ND	22 μ F \pm 10% 6.3V Ceramic Capacitor X6S 1206 (3216 Metric)	0.27	1	0.27
	C5, C8	DIGIKEY/ 445-9120-1-ND	4.7 μ F \pm 10% 6.3V Ceramic Capacitor X7S 0603 (1608 Metric)	0.32	2	0.64
	C23, C24, C46	DIGIKEY/ 478-10183-1-ND	10pF \pm 0.1pF 100V Ceramic Capacitor C0G, NP0 0603 (1608 Metric)	0.55	3	1.65
	C26, C28 , C43	DIGIKEY/ 1276-1946-1-ND	1 μ F \pm 10% 10V Ceramic Capacitor X7R 0603 (1608 Metric)	0.3	1	0.3


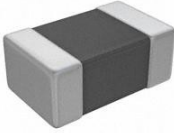


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	C45	DIGIKEY/ 1276-1187-1-ND	20pF ±5% 50V Ceramic Capacitor COG, NP0 0603 (1608 Metric)	0.1	1	0.1
	C48	DIGIKEY/ 338-1728-ND	Aluminum Electrolytic Capacitors Radial, Can 2.39 Ohm @ 120Hz 2000 Hrs @ 105°C	0.61	1	0.61
	C49	DIGIKEY/ 1276-1037-1-ND	47pF ±5% 50V Ceramic Capacitor COG, NP0 0603 (1608 Metric)	0.1	1	0.1
	C50, C51	DIGIKEY/ 732-8911-1-ND	CAP ALUM 220UF 20% 10V RADIAL	0.13	2	0.26
	R1, R26, R6	DIGIKEY/ 311-0.0GRCT-ND	RES SMD 0.0OHM JUMPER 1/10W 0603	0.1	3	0.3
	R2, R9, R10, R11, R12	DIGIKEY/ 311-2.20KHRCT-ND	RES SMD 2.2K OHM 1% 1/10W 0603	0.1	5	0.5
	R3, R4, R5, R16, R21	DIGIKEY/ 311-10.0KHRCT-ND	RES SMD 10K OHM 1% 1/10W 0603	0.1	6	0.6

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	R7, R8, R18, R19	DIGIKEY/ 311-1.00KHRCT-ND	RES SMD 1K OHM 1% 1/10W 0603	0.1	4	0.4
	R13, R14, R15, R25	DIGIKEY/ 311-47.0KHRCT-ND	RES SMD 47K OHM 1% 1/10W 0603	0.1	4	0.4
	R17	DIGIKEY/ 311-120HRCT-ND	RES SMD 120 OHM 1% 1/10W 0603	0.1	1	0.1
	R20	DIGIKEY/ 311-1.00MHRCT-ND	RES SMD 1M OHM 1% 1/10W 0603	0.1	1	0.1
	R22	DIGIKEY/ 311-4.70KHRCT-ND	RES SMD 4.7K OHM 1% 1/10W 0603	0.1	1	0.1
	RM1	DIGIKEY/ 742C083104JPCT-ND	100k Ohm ±5% 62.5mW Power Per Element Isolated Resistor Network/Array ±200ppm/°C 1206 (3216 Metric), Concave, Long Side Terminals	0.1	1	0.1
	RM2	DIGIKEY/ 742C083473JPCT-ND	47k Ohm ±5% 62.5mW Power Per Element Isolated Resistor Network/Array ±200ppm/°C 1206 (3216 Metric), Concave, Long Side Terminals	0.1	1	0.1

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	RM3	DIGIKEY/ 742C083472JPCT-ND	4.7k Ohm ±5% 62.5mW Power Per Element Isolated Resistor Network/Array ±200ppm/°C 1206 (3216 Metric), Concave, Long Side Terminals	0.1	1	0.1
	SD/MMC	Ebay/ Advertised as TF Memory card on Ebay	TFC-WPAPR-08	1.99	1	1.99
	USB_HOST	DIGIKEY/ 732-2106-ND	USB - A USB 2.0 Receptacle Connector 4 Position Through Hole, Right Angle	0.99	1	0.99
	COMPOSITE_VIDEO	DIGIKEY/ CP-1404-ND	3.20mm ID, 9.00mm OD (RCA) Phono (RCA) Jack Mono Connector Solder	0.73	1	0.73
	PWR	DIGIKEY/ CP-202B-ND	Power Barrel Connector Jack 2.50mm ID (0.098"), 5.50mm OD (0.217") Through Hole, Right Angle	0.6	1	0.6
	POWER, RECOVERY, RESET	DIGIKEY/ 732-7040-1-ND	Tactile Switch SPST-NO Top Actuated Surface Mount	0.54	3	1.62
	CON1, CON2	DIGIKEY/ S7028-ND	30 Position Header Connector 0.100" (2.54mm) Through Hole Tin	2.05	2	4.1

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	U_DEBUG , SJTAG	DIGIKEY/ 732-5317-ND	4 Positions Header Connector 0.100" (2.54mm) Through Hole Gold	0.18	2	0.36
	U1	DIGIKEY/ MCIMX233CAG4C-ND	ARM926EJ-S Microprocessor IC i.MX23 1 Core, 32-Bit 454MHz 128-LQFP (14x14)	12.35	1	12.35
	U2	Ebay/ HY5DU121622D(L)T(P)-J on ebay	512Mbit CMOS Double Data Rate(DDR) Synchronous DRAM	1.34	1	1.34
	U3	Ebay/ SY6280 or DIGIKEY/ 1589-1205-1-ND (500mA only limit, R3 is not loaded)	IC USB POWER SWITCH TSOT23-5	1.56	1	1.56
	T3, T4	DIGIKEY/ DTA114YKAT146CT-ND	Pre-Biased Bipolar Transistor (BJT) PNP - Pre-Biased 50V 100mA 250MHz 200mW Surface Mount SMT3	0.2	2	0.4
	T1, T2	DIGIKEY/ BC846BMTFCT-ND	Bipolar (BJT) Transistor NPN 65V 100mA 300MHz 310mW Surface Mount SOT-23-3	0.19	2	0.38
	FET1	DIGIKEY/ IRLML6402PBFCT-ND	P-Channel 3.7A (Ta) 1.3W (Ta) Surface Mount Micro3™/SOT- 23	0.44	1	0.44

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	D1	DIGIKEY/ SS14CT-ND (or 1N5819HWDITR-ND)	Diode Schottky 1A Surface Mount SMA (DO-214AC)	0.5	1	0.5
	D3	DIGIKEY/ SMBJ6.0ALFCT-ND	TVS DIODE 6VWM 10.3VC SM	0.46	1	0.46
	D2	DIGIKEY/ TBAT54SLMCT-ND	Diode Schottky 140mA Surface Mount SOT-23-3	0.23	1	0.23
	D4	DIGIKEY/ BAT54CT-ND	Diode Schottky 200mA (DC) Surface Mount SOT-23-3	0.33	1	0.33
	LED1	DIGIKEY/ 511-1578-1-ND	Green 572nm LED Indication - Discrete 2.2V 0603 (1608 Metric) 22.1184MHz ±50ppm Crystal 20pF 30 Ohm -20°C ~ 70°C Surface Mount HC-49S	0.34	1	0.34
	Q1	DIGIKEY/ CTX1135CT-ND (should be 20ppm, 24.0000 MHz)	24MHz ±30ppm Crystal 20pF 30 Ohm -40°C ~ 85°C Surface Mount HC49/US	0.4	1	0.4
	VR1	DIGIKEY/ NCP114ASN330T1GOSCT-ND (C28, C43 should be replaced with 1uF)	Linear Voltage Regulator IC Positive Fixed Output 3.3V 300mA 5-TSOP	0.38	1	0.38

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	L1	DIGIKEY/ 535-12575-1-ND or ELEMENT14/ B82473A1223K000	FIXED IND 22UH 1.5A 110 MOHM SMD	0.63	1	0.63
	L2	DIGIKEY/ 445-2206-1-ND	FERRITE BEAD 600 OHM 0805 1LN 2A	0.11	1	0.11
	L3	DIGIKEY/ 541-2297-1-ND	FERRITE BEAD 600 OHM 0805 1LN 200mA	0.1	1	0.1
	L4	DIGIKEY/ CW201212-R47JCT-ND	FIXED IND 470NH 250MA 1.72 OHM	0.31	1	0.31
					Total	41.13