



# **RIO Application Kit**

## **Bill of Materials**

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Description	Manufacturer references	Quantity	Design references
Sealed Tact Switch for SMT, J bend, 6.2x6.2mm	ITTCannon KSC221J LFS	4	S2-5
Slide switch, 1pole, SPDT	COPAL ELECTRONICS CAS-120TB	1	S1
Header, HTSW, 1x36pin, THT, 11.4mm, RM2.54, Gold 0.2µm	cab 1001-161-036	0.3	X1 (10pin)
Header, IDC, 2x10pin, low profile, 4wall, RM2.54, gold	Harting 09 18 520 6324	1	P2
Header, HTSW, 2x5pin, THT, 11.4mm, RM2.54, Gold 0.2µm	cab 1002-161-010	4	P4-7
EMI Filter 0.05R, 2A, 220R/100MHz, 0805, -55-+125°	MuRata BLM21PG221SN1	2	L1-2
Capacitor 100nF, 0603, 16V, X7R, 10%, -55-+125°	AVX 0603YC104KAT2A Kemet C0603C104K4RAC	9	C1;8-9;C13-18
Capacitor 1µF, 0603, 6.3V, X5R, 10%, -40-+85°	Murata GRM188R60J105 KA01D (6.3V) Murata GRM188R61A105KA01L (10V)	2	C10;C12
LED red, 2mA, PLCC2, -40-+100°	AVX : 0603YC104KAT2A	1	DS1
Oscillator 20MHz, SMD7x5mm, -40-+85°, 100ppm, 3.3V	Jauch O20.00-VX3MH-T1-LF	1	Y1

Description	Manufacturer references	Quantity	Design references
Resistor 0R0, 0805, 2A, -55-+125°	Panasonic ERJ6GEY0R00V Vishay D12/CRCW0805 200 0R ET1 E3	2	R2;R4
Resistor 1K, 0805, 5%, 100mW, -55-+125°	Panasonic ERJ6ENF1001V Vishay D12/CRCW0805 200 1K 1% ET1 E3	6	R1R3;R15-18
Resistor 100K, 0603, 1%, 63mW, -55-+125°	Panasonic ERJ3EKF1003V Vishay D11/CRCW0603 200 100K 1% ET1 E3	10	R5;R7;R9-10; R12;R19-23
Rabbit RIO, 3.3V, TQFP64, -40-+85°		1	U1