

ATCA Simple Loopback HUB

Rev: 1.0

Karlsruhe Institute of Technology (KIT)

2024-09-18



	Sou rce d	Pla ced	References	Value	Footprint	DNP	Datasheet	Digi-Key	Info	Mouser	RS Components	digikey#	Quantit y
1	<input type="checkbox"/>	<input type="checkbox"/>	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C52, C53, C54, C55, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C83, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100, C104, C105, C106	0.1uF	C_0402_1005Metric								75
2	<input type="checkbox"/>	<input type="checkbox"/>	C13, C14, C15, C16, C32, C33, C34, C35, C63, C101, C103	1uF	C_0402_1005Metric								11
3	<input type="checkbox"/>	<input type="checkbox"/>	C49, C51, C82, C84	22uF	C_0805_2012Metric							587-1958-1-ND	4
4	<input type="checkbox"/>	<input type="checkbox"/>	C56, C64, C65, C102	10uF	C_0603_1608Metric								4
5	<input type="checkbox"/>	<input type="checkbox"/>	C57, C58, C59, C60	2.2uF	C_1206_3216Metric							587-4976-1-ND	4
6	<input type="checkbox"/>	<input type="checkbox"/>	C61, C62, C77, C78	20nF	C_0805_2012Metric							478-10428-1-ND	4
7	<input type="checkbox"/>	<input type="checkbox"/>	C79, C80, C81, C107	100uF	CP_Elec_18x22							493-UUJ2C101MNJ1MSCT-ND	4
8	<input type="checkbox"/>	<input type="checkbox"/>	C50	1nF	C_0402_1005Metric								1
9	<input type="checkbox"/>	<input type="checkbox"/>	R1, R2, R3, R4, R5, R6, R8, R9, R10, R17, R18, R28, R29, R32	4.7k	R_0402_1005Metric							, A129635CT-ND	14
10	<input type="checkbox"/>	<input type="checkbox"/>	R13, R14, R15, R16, R24, R25, R26, R27, R36, R38	50	R_0402_1005Metric								10
11	<input type="checkbox"/>	<input type="checkbox"/>	R11, R12	10M 2kV	R_2010_5025Metric		https://www.bourns.com/docs/product-datasheets/chv-st.pdf					118-CHV2010-FX-1005ESTCT-ND	2
12	<input type="checkbox"/>	<input type="checkbox"/>	R20, R21	0	R_0402_1005Metric								2
13	<input type="checkbox"/>	<input type="checkbox"/>	R41, R42	15	R_2512_6332Metric							RMCF2512JT15R0DKR-ND	2
14	<input type="checkbox"/>	<input type="checkbox"/>	R7	2k2	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder							A129753CT-ND	1
15	<input type="checkbox"/>	<input type="checkbox"/>	R37	10k	R_0603_1608Metric								1
16	<input type="checkbox"/>	<input type="checkbox"/>	U1, U2	Si5395	QFN-64-1EP_9x9mm_P0.5mm_EP5.2x5.2mm		https://www.skyworksinc.com/-/media/Skyworks/SL/documents/public/						2

	Source d	Placed	References	Value	Footprint	DNP	Datasheet	Digi-Key	Info	Mouser	RS Components	digikey#	Quantity
							data-sheets/si5395-94-92-a-datasheet.pdf						
17	<input type="checkbox"/>	<input type="checkbox"/>	U3	Pico	RPi_Pico_SMD_TH								1
18	<input type="checkbox"/>	<input type="checkbox"/>	U4	PIM400KZ	PIM400KZ		https://www.mouser.de/datasheet/2/167/PIM400_DS-1920379.pdf					555-1334-ND	1
19	<input type="checkbox"/>	<input type="checkbox"/>	U5	ADM7172	LFCSP-8-1EP_3x3mm_P0.5mm_EP1.45x1.74mm		https://www.analog.com/media/en/technical-documentation/data-sheets/ADM7172.pdf					ADM7172ACPZ-1.8-R7CT-ND	1
20	<input type="checkbox"/>	<input type="checkbox"/>	X1, X2	CX3225SB	Crystal_SMD_3225-4_Pin_3.2x2.5mm		https://media.digikey.com/pdf/Data%20Sheets/AVX%20PDFs/CX3225SB48000D0FPJ_C1.pdf					1253-1377-1-ND	2
21	<input type="checkbox"/>	<input type="checkbox"/>	F2, F3, F5, F6	15A	SM2410							507-1979-1-ND	4
22	<input type="checkbox"/>	<input type="checkbox"/>	F1, F4	1A	SM2410							507-1965-1-ND	2
23	<input type="checkbox"/>	<input type="checkbox"/>	FB1, FB2, FB3, FB4, FB5, FB6, FB7, FB8, FB9, FB10	FerriteBead	L_0603_1608Metric								10
24	<input type="checkbox"/>	<input type="checkbox"/>	2nd_Stage_CLK_OUT, HQ_LHC_CLK_IN, LHC_CLK_IN, LVDS_RX, LVDS_TX	SMA_Cable_Drawing	SMA_Cable_Drawing								5
25	<input type="checkbox"/>	<input type="checkbox"/>	H3, H4, H5, H6, H7	MountingHole	NPTH_2.7_7_Keepout								5
26	<input type="checkbox"/>	<input type="checkbox"/>	K1, K2	Key_K1_K2_TE_1-1469373-1	Key_K1_K2_TE_1-1469373-1		https://www.te.com/commerce/DocumentDelivery/DDEController?Action=showdoc&DocId=Customer+Drawing%7F1469373%7FE1%7Fpdf%7FEnglish%7FENG_CD_1469373_E1.pdf%7F1-1469373-1					1-1469373-1-ND	2
27	<input type="checkbox"/>	<input type="checkbox"/>	G1	KIT_LOGO	KIT_LOGO_Mask								1
28	<input type="checkbox"/>	<input type="checkbox"/>	H2	Handle	81-300-00								1
29	<input type="checkbox"/>	<input type="checkbox"/>	Q5	DMG2305UX	TS0T-23		https://www.diodes.com/assets/Datasheets/DMG2305UX.pdf					DMG2305UX-13DICT-ND	1
30	<input type="checkbox"/>	<input type="checkbox"/>	J4, J5, J8, J9, J10, J11, J12, J13, J15, J17	Conn_Coaxial	MMCX_Molex_73415-1_471_Vertical		~						10
31	<input type="checkbox"/>	<input type="checkbox"/>	J1, J2	0826-1X4T-HS-F	BEL_0826-1X4T-HS-F		https://www.digikey.de/htmldatasheets/production/608856/0/0/1/0826-1g4t-23-f.pdf					507-1428-ND	2
32	<input type="checkbox"/>	<input type="checkbox"/>	J6, J7	SFP+	TE_1888247-1		https://members.snia.org/document/dl/25892						2
33	<input type="checkbox"/>	<input type="checkbox"/>	J14	Conn_01x03_Male	Molex_53046-0310								1

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34	<input type="checkbox"/>	<input type="checkbox"/>	J16	TE 2007262-1	TE_2007263-1		https://www.te.com/commerce/DocumentDelivery/DDEController?Action=showdoc&DocId=Customer+Drawing%7F2007262%7FF2%7Fpdf%7FEnglish%7FENG_CD_2007262_F2.pdf%7F2007262-1			571-2007263-1			1
35	<input type="checkbox"/>	<input type="checkbox"/>	J18	Conn_01x02_Pin	Wago_734-132_1x02_P3.50mm_Vertical								1
36	<input type="checkbox"/>	<input type="checkbox"/>	J20	TE_64690XX-1_J20	TE_6469001-1		https://www.te.com/commerce/DocumentDelivery/DDEController?Action=srchrtv&DocNm=6469001&DocType=Customer+Drawing&DocLang=English					A121106-ND	1
37	<input type="checkbox"/>	<input type="checkbox"/>	J21	TE_64690XX-1_J21	TE_6469001-1		https://www.te.com/commerce/DocumentDelivery/DDEController?Action=srchrtv&DocNm=6469001&DocType=Customer+Drawing&DocLang=English					A121106-ND	1
38	<input type="checkbox"/>	<input type="checkbox"/>	J22	TE_64690XX-1_J22	TE_6469001-1		https://www.te.com/commerce/DocumentDelivery/DDEController?Action=srchrtv&DocNm=6469001&DocType=Customer+Drawing&DocLang=English					A121106-ND	1
39	<input type="checkbox"/>	<input type="checkbox"/>	J23	TE_64690XX-1_J23	TE_6469001-1		https://www.te.com/commerce/DocumentDelivery/DDEController?Action=srchrtv&DocNm=6469001&DocType=Customer+Drawing&DocLang=English					A121106-ND	1
40	<input type="checkbox"/>	<input type="checkbox"/>	J24	TE_64690XX-1_J24	TE_6469001-1		https://www.te.com/commerce/DocumentDelivery/DDEController?Action=srchrtv&DocNm=6469001&DocType=Customer+Drawing&DocLang=English					A121106-ND	1
41	<input type="checkbox"/>	<input type="checkbox"/>	P10	1766500-1	TE_1766500-1							1766500-1-ND	1
42	<input type="checkbox"/>	<input type="checkbox"/>	NT1	Net-Tie_2	NetTie-2_SMD_Pad0.5mm								1