A Roach 2 Enclosure Bill of Materials								
be used in conjunction with manufacturing	g pack							
m No.	Item	Description	Quantity	Manufacturer	Recommended Supplier	Supplier Part Number	Manufacturer Part number	Specifications
ACH 2 in 1U Chassis								
ACH 2 III 10 Chassis	1 Enclosure	1U Aluminum 19" rack mountable enclosure	1	AllFab	Digicom		SA ROACH 2 Enclosure	https://github.com/ska-sa/roach2 chassis design/tree/master/roach 2 manufacture
	2 Blank Back Panel		2	AllFab	Digicom		GITTOTOTTE ETIGOGGIC	https://github.com/ska-sa/roach2 chassis design/tree/master/roach 2 manufacture
	3 Front Face/Panel	Front mounting face/panel for enclosure	1	AllFab	Digicom	-		https://github.com/ska-sa/roach2 chassis design/tree/master/roach 2 manufacture
	4 Power Supply	200W, six output, Switch Mode DC supply	4	iStar/XEAL	Digicom	-	TC-1U20FX2	www.istarusa.com/xeal/products.php?model=TC-1U20FX2#.UnulJvImh8E
	5 Power Filter	General purpose, IEC inlet filter	1	Schaffner	Digicom		FN9222-3-06	https://github.com/ska-sa/roach2 chassis design/tree/master/roach 2 manufacture
	6 Power Cable Interface	IEC 60320-1 C13 female connector with 200mm cable	1		In SA (Otto Marketing)	OCT100038	OCT100038	https://github.com/ska-sa/roachz_chassis_design/inee/master/roach_z_manufacture
	7 ROACH 2 PCB	FPGA ROACH 2 PCB	1	Digicom	Digicom	001100038	OC1100036	
	8 LED Status Indicator	LED ROACH 2 Status PCB	1	Digicom	Digicom			https://github.com/ska-sa/roach2_hardware/tree/master/REV%202/ROACH2_LEDSTATUS_PCB/Release/REV0/A
	9 Power Switch	Panel Mount Pushbutton Switch	1	EAO Secme	RS Components	RS comp 174-4098	EOZ 07.17502.21	Tittps://gititub.com/ska-sa/toachz_haruwale/hee/master/kev/%202/kOAChz_LEDSTATOS_FOB/kelease/kev//A
	- with cable	0.22mm, 7 strand copper, 100mm long		EAO Secille	K3 Components	K3 Collip 174-4096	EOZ 07.17302.21	
		2.54mm, crimp housing, 2 way		Harwin	RS Components	RS comp 681-2812	M20-1060200	http://www.harwin.com/M20-118/M20-1060200-product.html
	- with plug - terminal		2	Harwin	RS Components	RS comp 681-2878	M20-1000200 M20-1180042	http://www.harwin.com/M20-118/M20-1180042-product.html
		Panel Mount Pushbutton Switch	4	EAO Secme		RS comp 174-4098	EOZ 07.17502.21	http://www.narwin.com/wzo-116/wzo-1160042-product.ntmi
	10 Reset Switch			EAU Secille	RS Components	No Comp 174-4098	EUZ U1.110UZ.Z1	
	- with cable	0.22mm, 7 strand copper, 100mm long			DO 0	DO 004 0040	1100 1000000	14. (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	- with plug	2.54mm, crimp housing, 2 way	1	Harwin	RS Components	RS comp 681-2812	M20-1060200	http://www.harwin.com/M20-118/M20-1060200-product.html
	- terminal	0.22 crimp terminal	2	Harwin	RS Components	RS comp 681-2878	M20-1180042	http://www.harwin.com/M20-118/M20-1180042-product.html
	11 Fan	38 x 38 x 28, Cooling Fan	3	SanAce	SanAce		9GV0312G301	http://db.sanyodenki.co.jp/product_db_e/coolingfan/dcfan/dc_fan_detail.php?master_id=1701
	- with plug and terminal		3	Tyco Electronics	RS Components	RS comp 471-446		
	12 Fansink	42.5x42.5 Fansink	1	Radian Heatsinks	Digicom	SKA002-A1	SKA002-A1	http://www.radianheatsinks.com/
							Data Sheet:	https://github.com/ska-sa/roach2_chassis_design/tree/master/roach_2_manufacture/supporting_documentation/SKA002-A1
	13 GPIO Loom A	Length 550mm	1					
	- with cable	20way ribbon cable						
	- with connector	20 way 150 barrip polarioca docket, ir t	2	3M	RS Components	RS comp 192-7388	3421-6620	
	14 Power/Reset Loom	Length 350mm	1					
	- with cable	14way ribbon cable						
	- with connector	14 way IDC bump polarised socket,1A	2	3M	RS Components	RS comp 192-7366	3385-6614	
	15 Rail Kit	Rail kit to mount Roach Enclosure in a 19" rack	1 set	iStarUSA		Shallow	RP-RAIL-20-1U	http://www.istarusa.com/istarusa/products.php?model=RP-RAIL-20-1U#.UYugF6x3NaQ
						Deep	RP-RAIL-26-1U	http://istarusa.com/istarusa/products.php?model=RP-RAIL-26-1U#.UvoQ5PmSz3Q
	Mounting Hardware							
	16 M3 x 6	POZI head machine screw, 3mm thread, 6mm long, Staink	16	Boltfast	Boltfast		DIN: 7985	Used to Mount PCB's(9), Power Supply(4), LED PCB(2), Earth connection(1)
	17 M3 x 35	POZI head machine screw, 3mm thread, 35mm long, Stain		Boltfast	Boltfast		DIN: 7985	Used to mount the cooling Fans
	18 M3 Flat Washers	3mm Flat washers. Stainless Steel	12	Boltfast	Boltfast		DIN: 125	Used to mount the cooling Fans
	19 M4 x 6	POZI head machine screw, 4mm thread, 6mm long, Stainle	1	Boltfast	Boltfast		DIN: 7985	Used to mount the Cail Kits
	20 M3 x 6 CSK	Countersunk, HEX head machine screw, 3mm thread, 6mr		Boltfast	Boltfast		DIN: 965	Used to mount the Enclosure Lid(28), 2 Back Panels(6x2=12), Front Face(4) and Power Filter(2)
	21 Clear Hole Bracket		40	Boiliasi	Boiliasi			
DCs included	21 Clear Hole Bracket	L-Shape short bracket to mount PSU	_				tc-1u20fx2_bracket	https://github.com/ska-sa/roach2_chassis_design/blob/master/roach_2_manufacture/documentation/tc-1u20fx2_bracket.pdf
-00 11010000	22 ADC	Currently katADC	slots for 2					
	23 SMA Pigtail			In SA (Otto Marketing)	In SA (Otto Marketing)	SMA00SMA50R0900		
	- cable, Micro-Coax	50 ohm Semi Rigid Cable, 900mm	Op 10 0	or (out warketing)	Micro-Coax	C.11.1.1.0.0.1.1.1.1.0.1.1.0.0.1.0.0.0.0	UT-85C	http://www.micro-coax.com/pages/products/ProductTypes/CableTypes/Semi-RigidCoaxial/Semi-RigidDetails.asp?ID=UT-085C
	- SMA jack	SS STATE COLLE TAGIG COURSE	1	Telegartner	Telegartner		J01151A0061	maparamana occasiona pagea productari roducti y pearodure i y pearodinim rigidociana ocinim rigidociana socialim rigidociana ocinim rigidociana socialim rig
	- SMA plug		1	Telegartner	Telegartner		J01150A0121	
	- Olvin plug			rologaitioi	rologartrior		55.150/10121	
	Mounting Hardware							
	M3 x 6	POZI head machine screw, 3mm thread, 6mm long, Stainle	8	Boltfast	Boltfast		DIN: 7985	ADC PCBs(4x2=8),
FPP/CX4 Cards Included								
FPF/GA4 Gards Included	24 SFPP/CX4 Cards	Either 2 SFPP or 2 CX4 or 1 SFPP and 1 CX4 Card	alata for 2	Digicom	Diginom	+		
	24 SEPPICA4 CaldS	Either 2 SFPP or 2 CX4 or 1 SFPP and 1 CX4 Card Either 2 SFPP or 2 CX4 or 1 SFPP and 1 CX4 Back	อเบเร เบโ 2	Digicom	Digicom			
	25 SFPP/CX4 Back Panels		2	AllFab	Digicom			https://github.com/ska-sa/roach2 chassis design/tree/master/roach 2 manufacture
	20 OITT/OX4 Back Patiets	1 diligia	_	Alli du	Digitorii			https://github.com/saca-senioacitz_crisesis_cesign/recommaster/Odcli_Z_Itialitatettie
	Mounting Hardware							
	26 M3 x 6	POZI head machine screw, 3mm thread, 6mm long, Staink	8	Boltfast	Boltfast		DIN: 7985	CX4/SFPP PCBs(4x2=8),
	27 M3 11mm Brass Standof	f: M3 11mm hex male to female spacer standoff, Brass	8	Harwin Inc	Digi-Key	952-1502-ND	R30-3001102	http://www.digikey.com/product-detail/en/R30-3001102/952-1502-ND/2264483