0. B 0. F								
A Roach 2 Enclosure Bill of Materials								
o be used in conjunction with manufacturing pack	-					_		
						_		
Item No.	Item	Description	Quantity	Manufacturer	Recommended Supplier	Supplier Part Number	Manufacturer Part number	Specifications
item No.	item	Description	Quantity	Ivianulacturer	Recommended Supplier	Supplier Part Number	Manufacturer Part number	Specifications
ROACH 2 in 1U 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	SFPP/CX4 Interchangeable back panels	2	AllFab	Digicom		OF THO HOTT E ENGIQUE	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	- :	Sunpower	Digicom		SPX-6200A1	http://www.sunpower-uk.com/products/200W-1U-Active-PFC-ATX-Power-Supply/SPX-6200A1/default.htm
	5 Power Filter	General purpose, IEC inlet filter		Schaffner	Digicom		FN9222-3-06	https://github.com/ska-sa/roach2_chassis_design/tree/master/roach_2_manufacture
	Power Cable Interface	IEC 60320-1 C13 female connector with 200mm cable	1		In SA (Otto Marketing)	OCT100038	OCT100038	https://giurub.com/ska-sa/roadnz_cnassis_design/tree/master/roadn_z_manufacture
	7 ROACH 2 PCB	FPGA ROACH 2 PCB				001100036	OC1100036	
	B LED Status Indicator	LED ROACH 2 Status PCB	1	Digicom Digicom	Digicom Digicom			https://github.com/ska-sa/roach2_hardware/tree/master/REV%202/ROACH2_LEDSTATUS_PCB/Release/REV0/A
	Power Switch	Panel Mount Pushbutton Switch				RS comp 174-4098	EOZ 07.17502.21	https://githibb.com/ska-sa/toachiz_naroware/tree/master/kev/szcz/kOAChiz_Leb/s1A105_FCb/kelease/kev/i/A
	- with cable		1	EAO Secme	RS Components	RS comp 174-4098	EUZ 07.17502.21	
		0.22mm, 7 strand copper, 100mm long	-	Henrie	RS Components	DO 004 0040	M20-1060200	http://www.haraida.aam.aton.aton.aton.aton.aton.aton.aton.aton
	- with plug	2.54mm, crimp housing, 2 way	1	Harwin		RS comp 681-2812		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
10	Reset Switch	Panel Mount Pushbutton Switch	1	EAO Secme	RS Components	RS comp 174-4098	EOZ 07.17502.21	
	- with cable	0.22mm, 7 strand copper, 100mm long						
	- 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	1 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	2 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	3 GPIO Loom A	Length 550mm	1					
	- with cable	20way ribbon cable						
	- with connector	20 way IDC bump polarised socket,1A	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			RP-RAIL-20-1U	http://www.istarusa.com/istarusa/products.php?model=RP-RAIL-20-1U#.UYugF6x3NaQ
	Mounting Hardware							
	M3 x 6	POZI head machine screw, 3mm thread, 6mm long, Stainless Steel	14	Boltfast	Boltfast		DIN: 7985	Used to Mount PCB's(9), Power Supply(2), LED PCB(2), Earth connection(1)
	M3 Springwashers	3mm Spring washers, Stainless Steel	26	Boltfast	Boltfast		DIN: 127	Used together with M3 x 6[PCB,Power Supply, LED Board, Ground](14) and M3 x 45[Fans](12)
18	3 M3 x 35	POZI head machine screw, 3mm thread, 35mm long, Stainless Steel	12	Boltfast	Boltfast		DIN: 7985	Used to mount the cooling Fans
19	M3 Flat Washers	3mm Flat washers, Stainless Steel	12	Boltfast	Boltfast		DIN: 125	Used to mount the cooling Fans
20	M4 x 6	POZI head machine screw, 4mm thread, 6mm long, Stainless Steel	4	Boltfast	Boltfast		DIN: 7985	Used to mount the Rail Kits
21	1 M3 x 6 CSK	Countersunk, HEX head machine screw, 3mm thread, 6mm long, Stainless Steel	46	Boltfast	Boltfast		DIN: 965	Used to mount the Enclosure Lid(28), 2 Back Panels(6x2=12), Front Face(4) and Power Filter(2)
		<u> </u>						
f ADCs included								
22	2 ADC	Currently katADC	slots for 2					
	3 SMA Pigtail	RF interface, SMA jack to SMA plug, 900mm	Up to 8	In SA (Otto Marketing)	In SA (Otto Marketing)	SMA00SMA50R0900		
	- cable. Micro-Coax	50 ohm Semi Rigid Cable, 900mm			Micro-Coax		UT-85C	http://www.micro-coax.com/pages/products/ProductTypes/CableTypes/Semi-RigidCoaxial/Semi-RigidDetails.asp?ID=UT-085C
	- SMA jack		1	Telegartner	Telegartner		J01151A0061	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	- SMA plug		1	Telegartner	Telegartner		J01150A0121	
				- congarate				
	Mounting Hardware							
	M3 x 6	POZI head machine screw, 3mm thread, 6mm long, Stainless Steel	8	Boltfast	Boltfast	1	DIN: 7985	ADC PCB's(4x2=8).
	M3 Springwashers	3mm Spring washers, Stainless Steel		Boltfast	Boltfast	_	DIN: 127	ADC PCB's(4x2=8).
	Wo opingwasiers	Still Spillig washers, Stalliess Steel	- 0	Doitidat	Dollast	-	DIIV. 121	ADC I OD SIAKE-O).
SFPP/CX4 Cards Included			_					
	4 SFPP/CX4 Cards	Either 2 SFPP or 2 CX4 or 1 SFPP and 1 CX4 Card	slots for 2	Digicom	Digicom			
	5 SFPP/CX4 Back Panels		2					https://editude.com/selse.
	OFFERDAM BACK PanelS	Either 2 SFPP or 2 CX4 or 1 SFPP and 1 CX4 Back Panels	-	AllFab	Digicom			https://github.com/ska-sa/roach2_chassis_design/tree/master/roach_2_manufacture
	Mounting Hordungs							
	Mounting Hardware	DOTI hand marking arms from the and form hand for the control of	-	D-W	Delifera		DIN. 7005	ADO DODIVINO DI
	M4 x 6	POZI head machine screw, 4mm thread, 6mm long, Stainless Steel	8	Boltfast	Boltfast	-	DIN: 7985	ADC PCB's(4x2=8),
	M4x10	POZI head machine screw, 4mm thread, 10mm long, stainless steel	8	Boltfast	Boltfast	_	DIN: 7985	ADC PCB's(4x2=8),
	M4 Flat Washer	4mm flat washers. stainless steel	8	Boltfast	Boltfast		DIN: 125	
	M4 Spring Washer	4mm spring washers, stainless steel	8	Boltfast	Boltfast		DIN: 127	
	M4 10mm Brass Standoffs	M4 10mm hex female female spacer standoff, Brass	8					