be used in conjunction with manufacturing	ig pack							
tem No.	Item	Description	Quantity	Manufacturer	Recommended Supplier	Supplier Part Number	Manufacturer Part number	Specifications
OACH 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		2	AllFab			SA ROACH 2 Eliciosure	
			1		Digicom			https://github.com/ska-sa/roach2_chassis_design/tree/master/roach_2_manufacture
	3 Front Face/Panel	Tront mounting race parter for enclosure	1	AllFab	Digicom		TO 411005140	https://github.com/ska-sa/roach2_chassis_design/tree/master/roach_2_manufacture
	4 Power Supply	200W, six output, Switch Mode DC supply	1	iStar/XEAL	Digicom		TC-1U20FX2	www.istarusa.com/xeal/products.php?model=TC-1U20FX2#.UnuIJvlmh8E
	5 Power Filter	General purpose, IEC inlet filter	1	Schaffner			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	
	7 ROACH 2 PCB	FPGA ROACH 2 PCB	1	Digicom	Digicom			
	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	
	- 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		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 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/
		1-					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				Data Gricot.	mps/ganus-sensea careaca-z-careaca-z-careaca-z-careaca-z-manada-z-careaca-z-
	- with cable	20way ribbon cable						
	- with connector		2	3M	RS Components	RS comp 192-7388	3421-6620	
	14 Power/Reset Loom	Length 350mm	4	Sivi	10 Components	100 comp 132-7300	3421-0020	
	- with cable							
		14way ribbon cable		3M	000	DO 400 7000	0005 0044	
	- with connector		2		RS Components	RS comp 192-7366	3385-6614	W. W. C. L. C. L. L. D.
	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
	Manager Handson							
	Mounting Hardware			l				
	16 M3 x 6	POZI head machine screw, 3mm thread, 6mm long, Stainle		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, Stair		Boltfast	Boltfast		DIN: 7985	Used to mount the cooling Fans
	18 M3 Flat Washers		12	Boltfast	Boltfast		DIN: 125	Used to mount the cooling Fans
	19 M4 x 6	POZI head machine screw, 4mm thread, 6mm long, Stainle		Boltfast	Boltfast		DIN: 7985	Used to mount the Rail Kits
	20 M3 x 6 CSK	Countersunk, HEX head machine screw, 3mm thread, 6mr	46	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	L-Shape short bracket to mount PSU	2				tc-1u20fx2_bracket	https://github.com/ska-sa/roach2_chassis_design/blob/master/roach_2_manufacture/documentation/tc-1u20fx2_bracket.pdf
ADCs included								
	22 ADC	Currently katADC	slots for 2					
	23 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		3/	Micro-Coax		UT-85C	http://www.micro-coax.com/pages/products/ProductTypes/CableTypes/Semi-RigidCoaxial/Semi-RigidDetails.asp?ID=UT-085C
	- SMA jack	<u> </u>	1	Telegartner	Telegartner		J01151A0061	
	- SMA plug		1	Telegartner	Telegartner		J01150A0121	
	Mounting Hardware							
	M3 x 6	POZI head machine screw, 3mm thread, 6mm long, Staink	8	Boltfast	Boltfast		DIN: 7985	ADC PCBs(4x2=8),
	INIS X U	FOZI nead machine sciew, smill tillead, omili long, stalling	0	DUILIASI	Boiliasi		DIN. 7965	ADC FODS(4A2-0),
FPP/CX4 Cards Included								
	24 SFPP/CX4 Cards	Either 2 SFPP or 2 CX4 or 1 SFPP and 1 CX4 Card	slots for 2	Digicom	Digicom			
		Either 2 SFPP or 2 CX4 or 1 SFPP and 1 CX4 Back			-			
	25 SFPP/CX4 Back Panels		2	AllFab	Digicom			https://github.com/ska-sa/roach2_chassis_design/tree/master/roach_2_manufacture
	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).
		fs M3 11mm hex male to female spacer standoff, Brass	0	Harwin Inc	Digi-Key	952-1502-ND	R30-3001102	http://www.digikey.com/product-detail/en/R30-3001102/952-1502-ND/2264483