OA Danels O Faciliaries Dill of Materials								
A Roach 2 Enclosure Bill of Materials			_		-			
o be used in conjunction with manufacturing pack			_					
			_					
tem No.	Item	Description	Quantity	Manufacturer	Recommended Supplier	Supplier Part Number	Manufacturer Part number	Specifications
om No.	THOM:	Doswipton	Quantity	Imandiadard	Trecommended Cappiler	Cupplici i dit i tumboi	mandidatarer i dit number	- Openinations
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	SFPP/CX4 Interchangeable back panels	2	AllFab	Digicom			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	1	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	1	Schaffner	Digitorii		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	EPGA ROACH 2 PCB	1	Digicom	Digicom	001100000	001100000	
	8 LED Status Indicator	LED ROACH 2 Status PCB	1	Digicom	Digicom			https://qithub.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	Imposignation out out to the control of the control
	- with cable	0.22mm, 7 strand copper, 100mm long		LAO Secille	13 Components	100 comp 174-4080	LO2 01:11302:21	
	- 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			M20-1180042	http://www.harwin.com/M20-118/M20-1180042-product.html
		0.22 crimp terminal			RS Components	RS comp 681-2878	EOZ 07.17502.21	http://www.narwin.com/wzc-110/wzc-1100042-product.nam
	10 Reset Switch	Panel Mount Pushbutton Switch	1	EAO Secme	RS Components	RS comp 174-4098	EUZ 07.1750Z.Z1	
	- with cable	0.22mm, 7 strand copper, 100mm long	-	Handa	D0.0	DO 004 0040	MOD 4000000	http://www.harvira.com/Architecture/Architec
	- 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 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 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 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)
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			Micro-Coax		UT-85C	http://www.micro-coax.com/pages/products/ProductTypes/CableTypes/Semi-RigidCoaxial/Semi-RigidDetails.asp?ID=UT-085
	- SMA jack		1	Telegartner	Telegartner		J01151A0061	
	- SMA plug		1	Telegartner	Telegartner		J01150A0121	
	, , ,							
	Mounting Hardware							
	M3 x 6	POZI head machine screw, 3mm thread, 6mm long, Stainless Steel	8	Boltfast	Boltfast		DIN: 7985	ADC PCBs(4x2=8).
	M3 Springwashers	3mm Spring washers, Stainless Steel	8	Boltfast	Boltfast		DIN: 127	ADC PCBs(4x2=8).
			1					
SFPP/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			
	25 SFPP/CX4 Back Panels	Either 2 SFPP or 2 CX4 or 1 SFPP and 1 CX4 Back Panels	2	AllFab	Digicom			https://github.com/ska-sa/roach2 chassis design/tree/master/roach 2 manufacture
	23 SITTION BACK I BIICIS	Elitici 2 Si 11 di 2 CA4 di 1 Si 11 dila 1 CA4 Dack I dileis	-	Alli ab	Digicom	-		https://github.com/ska-sarroacitz_chassis_design/trea/master/roacit_z_manufacture
	Mounting Hardware							
	M4 x 6	DOZI hand machine corous 4mm throad 6mm lane Chainless Class	0	Boltfast	Delifort		DIN: 7985	CVA(SEDD DODG(A)(2-9))
	M4 x 6 M4x10	POZI head machine screw, 4mm thread, 6mm long, Stainless Steel POZI head machine screw, 4mm thread, 10mm long, stainless steel	8	Boltfast	Boltfast Boltfast		DIN: 7985 DIN: 7985	CX4/SFPP PCBs(4x2=8), CX4/SFPP PCBs(4x2=8).
			0					CANOFFF FURSING-0),
	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					