SA Roach 2 Enclosure Bill of Materials
To be used in conjunction with manufacturin

8/8/2012

Rev 1.

Item No.	Item	Description	Quantity	Manufacturer	Supplier	Supplier Part Number	Manufacturer Part number	Specifications
1	Enclosure	1U Aluminum 19" rack mountable enclosure	1	AllFab	Digicom		SA ROACH 2 Enclosure	
2	Power Supply	200W, six output, Switch Mode DC supply	1	Sunpower	Digicom		SPX-6200A1	
3	Power Filter	General purpose, IEC inlet filter	1	Schaffner			FN9222-3-06	
4	Power Cable Interface		1	In SA (Otto Marketing)	In SA (Otto Marketing)			
5	ROACH 2 PCB	FPGA ROACH 2 PCB	1	Digicom	Digicom			
6	KATadc		slots for 2					
7	LED Status Indicator	LED ROACH 2 Status PCB	1		Digicom			https://github.com/ska-sa/roach2_hardware/tree/master/REV%202/ROACH2_LEDSTATUS_PCB/Release/REV0/A
8	Power Switch	Panel Mount Pushbutton Switch	1	EAO Secme	RS Components	RS comp 174-4098		
	- 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
9	Reset Switch	Panel Mount Pushbutton Switch	1	EAO Secme	RS Components	RS comp 174-4098		
	- 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
10	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.as
	- SMA jack		1	Telegartner	Telegartner		J01151A0061	
	- SMA plug		1	Telegartner	Telegartner		J01150A0121	
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		1	Tyco Electronics	RS Components	RS comp 471-446		
12	GPIO Loom A	Length ?						
	- with cable	20way ribbon cable						
	- with connector	20 way IDC bump polarised socket,1A	2	3M	RS Components	RS comp 192-7388	3421-6620	
13	Power/Reset Loom	Length ?						
	- with cable	14way ribbon cable						
	- with connector	14 way IDC bump polarised socket,1A	2	3M	RS Components	RS comp 192-7366	3385-6614	
14	LED PCB power loom	Length ?						
	- with cable	10way ribbon cable						
	- with connector	10 way IDC bump polarised socket,1A	1	3M	RS Components	RS comp 192-7350	3473-6610	
	- with connector	Connector,rectangular,plug,IDC,cable mount,c/w mount flanges,10 way	1	3M	RS Components	RS comp 121-0315	4610-6050	
15	Rail Kit	Rail kit to mount Roach Enclosure in a 19" rack	1 set	Intel			AXXBASICRAIL	
				iStarUSA			TC RAIL 20	
	Mounting Hardware							
16	M3 x 6	POZI head machine screw, 3mm thread, 6mm long	14	To be defined	To be defined			Use to Mount PCB's(9), Power Supply(2), LED PCB(2), ADC PCB's(4x2=8), SFPP/CX4(4x2=8), Earth connecti
	- if ADC is included		8					
	- if SFPP/CX4 included		8					
	M3 Brass Standoffs ????		8					Used as spacers between mezz card and ROACH PCB
17	M3 Springwashers	3mm Spring washers, Stainless Steel	26	To be defined	To be defined			Used together with M3 x 6[PCB,Power Supply, LED Board, Ground](14) and M3 x 45[Fans](12)
	- if ADC is included		34					
18	M3 x 35	POZI head machine screw, 3mm thread, 35mm long	12	To be defined	To be defined			Used to mount the cooling Fans
19	M3 Flat Washers	3mm Flat washers, Stainless Steel	12	To be defined	To be defined			Used to mount the cooling Fans
20	M4 x 6	POZI head machine screw, 4mm thread, 6mm long	4	To be defined	To be defined			Used to mount the Rail Kits
21	M3 x 6 CSK	Countersunk, HEX head machine screw, 3mm thre	46	To be defined	To be defined			Used to mount the Enclosure Lid(28), 2 Back Panels(6x2=12), Front Face(4) and Power Filter(2)