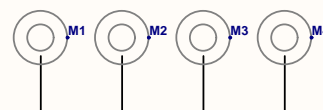


Does this unit only read tags or write too?

You have antenna pins routed to controller ?

Do i have the correct RFID reader using a ID-2 module>?

PCB dimension?  
Assuming 4x M3 mounting holes



Title			
Size A4	Number		Revision
Date:	17/12/12	Sheet of	
File:	C:\Users\...\Sheet1_SchDoc	Drawn By:	

# PCB MANUFACTURING INFORMATION

## CONSTRUCTION

FAB SPECIFICATION  
LEAD-FREE RoHS  
MATERIAL  
SPECIAL CORES  
FINAL PCB THICKNESS  
THICKNESS TOLERANCE  
LAYER COUNT

IPC-6012 CLASS  
☐ YES  
☐ FR4  
☐ YES  
☐ ???  
☐ 10%  
☐ ???

☐ 2  
☐ NOT REQD  
☐ FR408HR  
☐ NO

☐ 3  
☐ OTHER \_\_\_\_\_  
☐ OTHER \_\_\_\_\_

MIL-SPEC P-55110

LAYER STACK-UP  
ALLOW PCB ROTATION  
IMPEDANCE CONTROL  
SUPPLY TEST COUPONS  
BOARD EDGE

☐ MECHANICAL LAYER  
☐ NO  
☐ NO  
☐ NO  
☐ NO EXPOSED COPPER

☐ YES - 90 / 270 DEGREES  
☐ YES  
☐ YES

FILENAME \_\_\_\_\_  
PER STACKUP

BOW & TWIST  
PROFILING  
PROFILE TOLERANCE

☐ 0.75% SMT (IPC-TM-650 Method 2.4.22)  
☐ NC-ROUTE  
☐ +/- 0.15mm

☐ V-SCORE  
☐ +/- 0.2mm

☐ BOTH AS INDICATED  
☐ +/-0.25mm

## CONDUCTIVE MATERIAL

QTY SIGNAL LAYERS  
QTY COPPER PLANES  
MIN TRACE WIDTH  
MIN CLEARANCE  
Cu THICKNESS TOLERANCE  
Cu THICKNESS INTERNAL  
FINAL Cu THICKNESS EXT  
PLATING FINISH  
EXTERNAL PLATING  
SELECTIVE Au PLATING

☐ ???  
☐ ???  
☐ 0.10mm  
☐ 0.10mm  
☐ +/- .95mm  
☐ 17um  
☐ 17um  
☐ ENIG  
☐ CLASS 2 - 20um  
☐ NO

☐ +/- 10%  
☐ 35um  
☐ 35um  
☐ FLASH GOLD  
☐ CLASS 3 - 25um  
☐ AS INDICATED

☐ +/- 15%  
☐ PER STACKUP  
☐ PER STACKUP  
☐ OTHER \_\_\_\_\_  
☐ ON EDGE FINGERS

## INTERCONNECTS

DRILL PROCESS  
FILLED VIAS  
IPC-4761 VIA TYPE  
FILLING METHOD  
HOLE PLATING  
MIN DRILL SIZE  
MIN FINISHED HOLE  
MIN HOLE TO COPPER  
FINAL HOLE SIZE  
HOLE SIZE TOLERANCE  
HOLE POSITION TOL (GDT)  
MIN ASPECT RATIO

☐ THT  
☐ NO  
☐ (a) TENTED  
☐ CONDUCTIVE  
☐ CLASS 2 - 20um  
☐ 0.25mm  
☐ 0.15mm  
☐ 0.2mm  
☐ AS PER DRILL TABLE  
☐ +/- 0.075mm  
☐ 0.075mm  
☐ 6:4:1

☐ BLIND & BURIED VIAS  
☐ YES  
☐ VI - FILLED & COVERED  
☐ NON-CONDUCTIVE  
☐ CLASS 3 - 25um

☐ MICRO VIAS  
☐ SELECTIVE  
☐ VII - FILLED & CAPPED

☐ CUSTOM INSTRUCTION  
☐ +/- 0.215mm

## COSMETICS

SOLDERMASK SIDES  
SOLDERMASK TYPE  
SOLDERMASK COLOUR  
SOLDERMASK WEBBING  
SILKSCREEN COLOUR  
SILKSCREEN PRINT  
SILKSCREEN QTY  
SILKSCREEN OVER PADS

☐ TOP  
☐ BOT  
☐ BOTH SIDES  
☐ PHOTO IMAGEABLE (SMOBC)  
☐ BLUE  
☐ RED  
☐ BLACK  
☐ WHITE  
☐ YELLOW  
☐ OTHER \_\_\_\_\_  
☐ NO LEGEND TO BE APPLIED OVER SOLDER PADS  
☐ TOP  
☐ BOT  
☐ BOTH SIDES  
☐ NOT PERMITTED, PLEASE REMOVE IF PRESENT

## MANUFACTURING VARIATIONS

PAD REMOVAL  
TEARDROPPING  
THEIVING

☐ NO  
☐ NO  
☐ NO

☐ ALLOWED ON UNUSED PADS ON INNER LAYERS  
☐ YES  
☐ WHERE INDICATED

☐ ALLOWED ON PANEL STRIPS

## ADDITIONAL REQUIREMENTS

ELECTRICAL TEST  
MANUFACTURER LOGO  
BATCH No ON /SCREEN  
CERTIFICATE REQ'D  
SILKSCREEN SERIAL #

☐ NONE  
☐ ALLOWED  
☐ YES  
☐ E-TEST  
☐ YES

☐ NO  
☐ NO  
☐ NO  
☐ UL94  
☐ YES

☐ FLYING PROBE

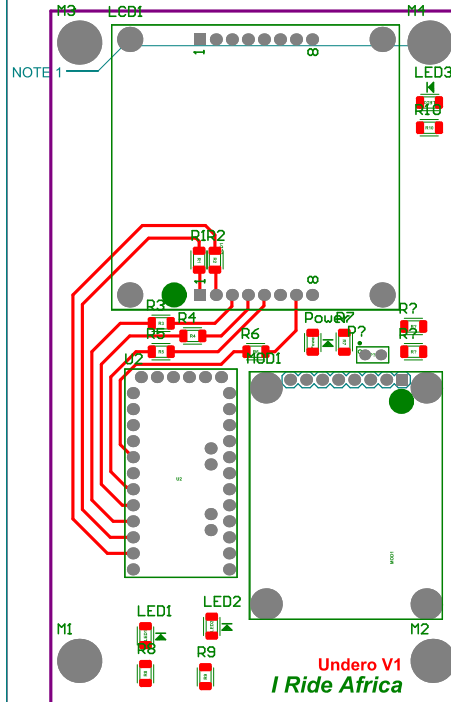
☐ IPC-6011/12  
☐ MIL-SPEC P-55110

## FINGER EDGE CONNECTOR

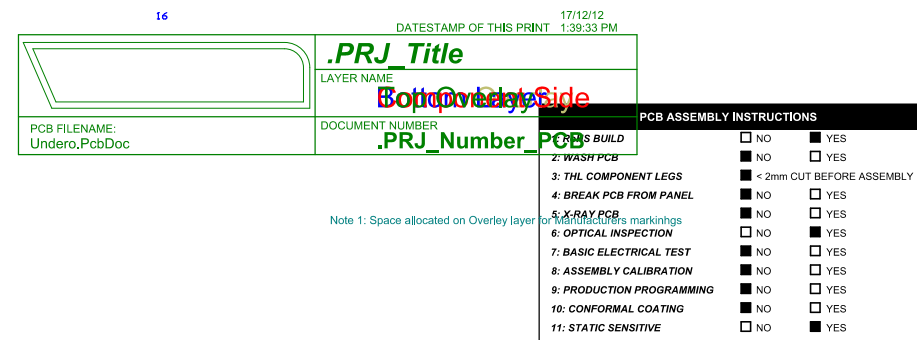
PLATING THICKNESS  
PLATING TYPE  
CHAMFER ANGLES  
CHAMFER HEIGHT  
DETAIL

☐ 1um  
☐ HARD GOLD  
☐ 20°  
☐ ???  
☐ NO

☐ 5um  
☐ ENIG  
☐ 45°  
☐ YES, SEE MECHANICAL LAYER



P-AC					
Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.010mm	3.5	
3	Component Side	Copper	0.036mm		
4	Dielectric 1	FR-4	1.500mm	4.2	
5	Bottom Layer	Copper	0.036mm		
6	Solder Side	Solder Resist	0.010mm	3.5	
7	Bottom Overlay				

[illegible]

Item #	mn Name Error:Manufa	#Column Name Error:Manufacturer No	Quantity	#Column Name Error>Note	Designator	Description	Footprint	Comment	LibRef
1			1		LCD1	nokia 5110 lcd V2	Nokia 5110 GLCD 84x48	nokia 5110 lcd V2	nokia 5110 lcd V2
2			4		M1, M2, M3, M4	Mounting Hole	M3 Mounting Hole	1206	
3			1		MOD1	SparkFun RFID USB Reader	SparkFun RFID USB Reader	SparkFun RFID USB Reader	SparkFun RFID USB Reader
4			1		P?	Header 2x1 2.54mm	Con Molex 90120 2-Way	VASTechPartNumber	
5			12		R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R?, R?	Resistor	Res 1206 HO-55	1206	[NoValue], [NoValue], [NoValue], [NoValue], [NoValue], [NoValue], [NoValue], [NoValue], [NoValue], [NoValue], 220R, [NoValue]
6			1		U1	nokia 5110 lcd V1	Nokia 5110 GLCD 84x48	nokia 5110 lcd V1	nokia 5110 lcd V1
7			1		U2	Arduino Pro Mini	ARDUINO PRO MINI	Arduino Pro Mini	Arduino Pro Mini