承認書

Product Specification

客戶名稱: Unitech Electronics Co., Ltd

CUSTOMER

適用機種:Baldr

APPLICATION

廠 商:Ethertronics Inc.

SUPPLIER

客戶料號: 204242G

PART NUMBER

Ethertronics 料號:5000753

PART NUMBER

承認日期: May, 2012

APPROVAL DATE

提供者簽章: Mandy Chen

PROVIDER BY

審核者簽章: Jecy Chou

REVIEW BY

承認人簽章: Kevin Wang

APPROVE BY

ethertronics

美商伊索泰克電子有限公司臺灣分公司

115 臺北市南港區園區街3號二樓之七(南港軟體工業園區G棟)

Ethertronics Inc.

(Building G) 2F-7, No. 3, Yuanqu St., Nangang District,

Taipei City 115, Taiwan (R.O.C)

Tel: 886-2-2655-7966 Fax: 886-2-2655-7967

聯絡人:王秦華

Kevin Wang



Table of Contents

- 1 Propose and Scope
- 2 Abbreviation and Definition
- 3 Electrical Specification for BT & Wi-Fi AUX
 - 3.1 Frequency Band
 - 3.2 Electrical Characteristics
 - 3.2.1 <u>VSWR</u>
 - 3.2.2 <u>S11</u>
 - 3.2.3 <u>Passive Measurement</u>
 - 3.3 Matching Requirements
- 4 Drawing and Materials
 - 4.1 Drawing of Internal Antenna
 - 4.2 Part List
- 5 ROHS

Confidentiality Statement

All the information contained in this document is commercially confidential and must not be copied or Disclosed without the written consent of Ethertronics, Inc. Copyright © Ethertronics



Revision History

Rev. A Initial Product Specification.



1. Purpose and Scope

The purpose of this document is to establish a design specification for the antenna product that Ethertronics is developing for the wireless AP. Any changes or additions to this specification can affect schedule, cost or the product and should be negotiated between Ethertronics and Unitech before being incorporated into the specification. Upon agreement of this specification, Ethertronics will make no changes without the written approval from Unitech. Any changes requested by Unitech will be given to Ethertronics with sufficient time to evaluate the cost impact and reach as required.



2. Abbreviations and Definitions

AVG Average
o Degree

°C Celsius (degrees Centigrade)

cm Centimeter

G Gravitational Force

g GramsHz HertzIn Inches

IQC Incoming Quality Control

MHz Megahertzm Metermm MillimeterN Newton

PCB Printed Circuit Board

TX Transmit Band RH Relative Humidity RX Receive Band

VSWR Voltage Standing Wave Ratio

W Watt



3. Electrical Specification For "BT & Wi-Fi AUX"

3.1 Frequency Band

Mode	Frequency Band (MHz)		
BT & Wi-Fi AUX	2400-2500		

3.2 Electrical Characteristics

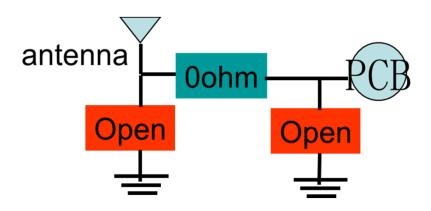
3.2.1 VSWR

3.2.2 S11

3.2.3 Passive Measurement

Please refer to the next few pages.

3.3 Matching Requirements

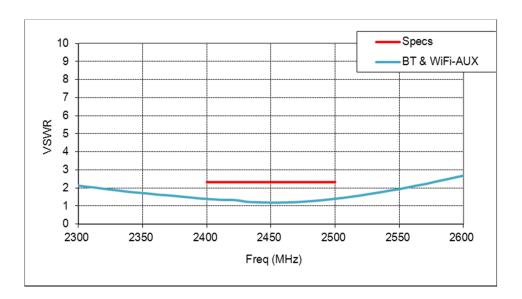


Confidentiality Statement

All the information contained in this document is commercially confidential and must not be copied or Disclosed without the written consent of Ethertronics, Inc. Copyright © Ethertronics

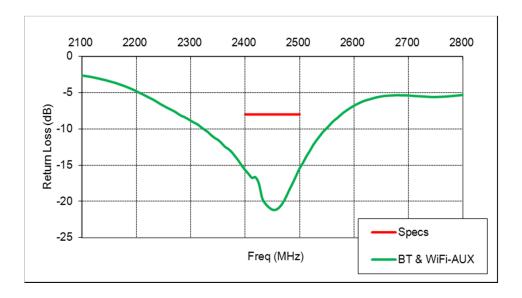


3.2.1 **VSWR**





3.2.2 S11





3.2.3 Passive Measurement

Baldr	BT & Wi-Fi-AUX						
Pattern	X03-23						
Frequency	Efficiency(%)	Efficiency(dB)	Peak gain(dBi)				
2400	55.0	-2.6 dB	2.3 dBi				
2410	56.5	-2.5 dB	2.3 dBi				
2420	51.5	-2.9 dB	1.8 dBi				
2430	54.2	-2.7 dB	1.9 dBi				
2440	59.3	-2.3 dB	2.3 dBi				
2450	60.8	-2.2 dB	2.5 dBi				
2460	61.5	-2.1 dB	2.5 dBi				
2470	60.6	-2.2 dB	2.4 dBi				
2480	58.9	-2.3 dB	2.2 dBi				
2490	55.8	-2.5 dB	2.0 dBi				
2500	51.7	-2.9 dB	1.7 dBi				



4. Drawing and Materials

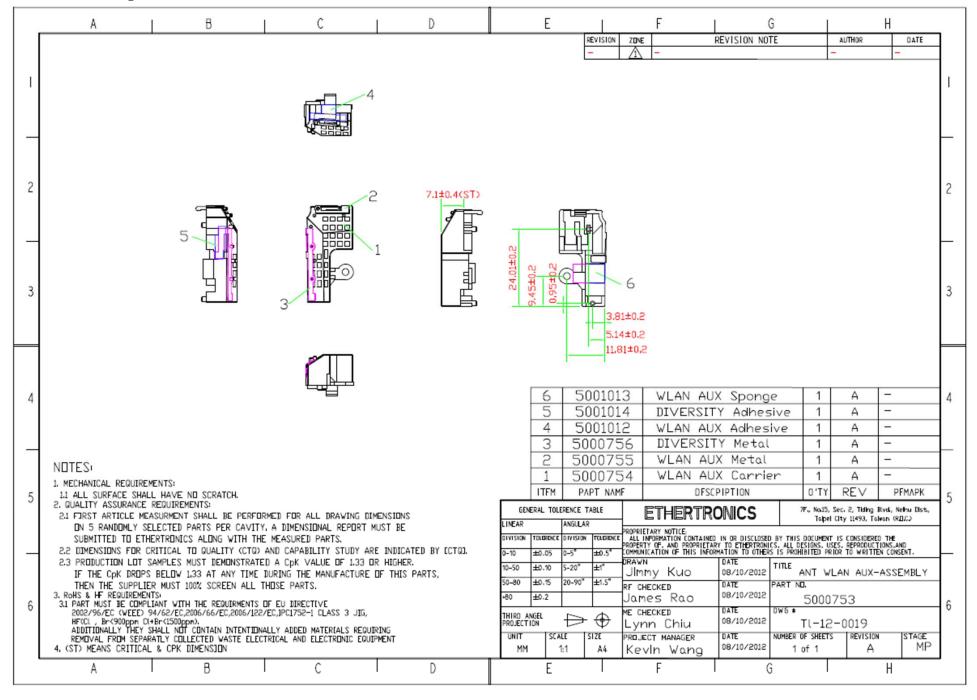
4.1 Drawing of Internal Antenna

Please refer to the next page.

4.2 Part List

Part Name	Material	ET P/N	Туре	Finish	Q'ty
ANTENNA ASSEMBLY P/N: 5000753	Carrier	5000754	Black	Ethertronics	1
	Metal , WLAN AUX	5000755	sus304 1/2H 0.2T		
	Metal , Div	5000756	sus304 1/2H 0.2T		
	Adhesive , WLAN AUX	5001012			
	Sponge	5001013			
	Adhesive, Div.	5001014			

4.1 Drawing of Internal Antenna





5. ROHS

Please refer to the ROHS reports.