

Technical Description

The equipment under test (EUT) is Scanner with Wifi function. The EUT is a WiFi Scanner with One Antennas. The EUT was operated from DC3.7V internal rechargeable battery. For more detail information pls. refer to the user manual.

Channel List:

40 MHz		20 MHz	
Channel	Freq(GHz)	Channel	Freq(GHz)
3	2.422	1	2.412
4	2.427	2	2.417
5	2.432	3	2.422
6	2.437	4	2.427
7	2.442	5	2.432
8	2.447	6	2.437
9	2.452	7	2.442
		8	2.447
		9	2.452
		10	2.457
		11	2.462

Modulation Type: BPSK, QPSK, 16QAM, 64QAM, CCK, DQPSK, DBPSK.

Procotol: IEEE 802.11 b/g/n standard compliant

Antenna Type: Integral antenna

Antenna Gain: 2.2dBi

For IEEE 802.11b conducted average output power specified: 14.0dBm (Tolerance: +/- 2dB)

For IEEE 802.11g/n-HT20/n-HT40 conducted average output power specified: 10.0 dBm(Tolerance: +/- 2dB)

The function of main IC is mentioned as below.

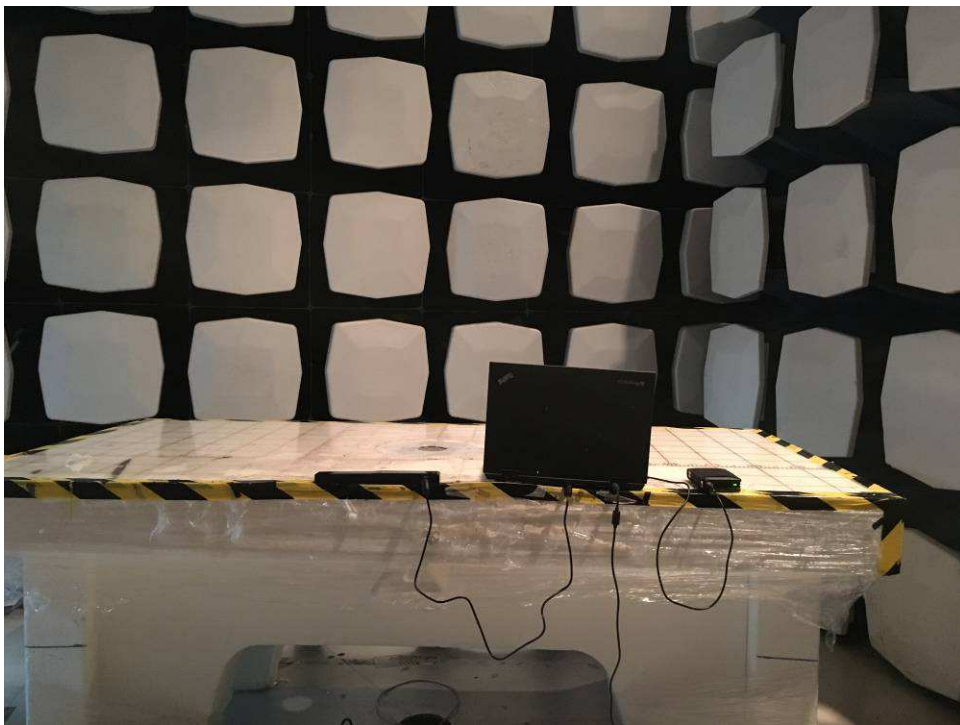
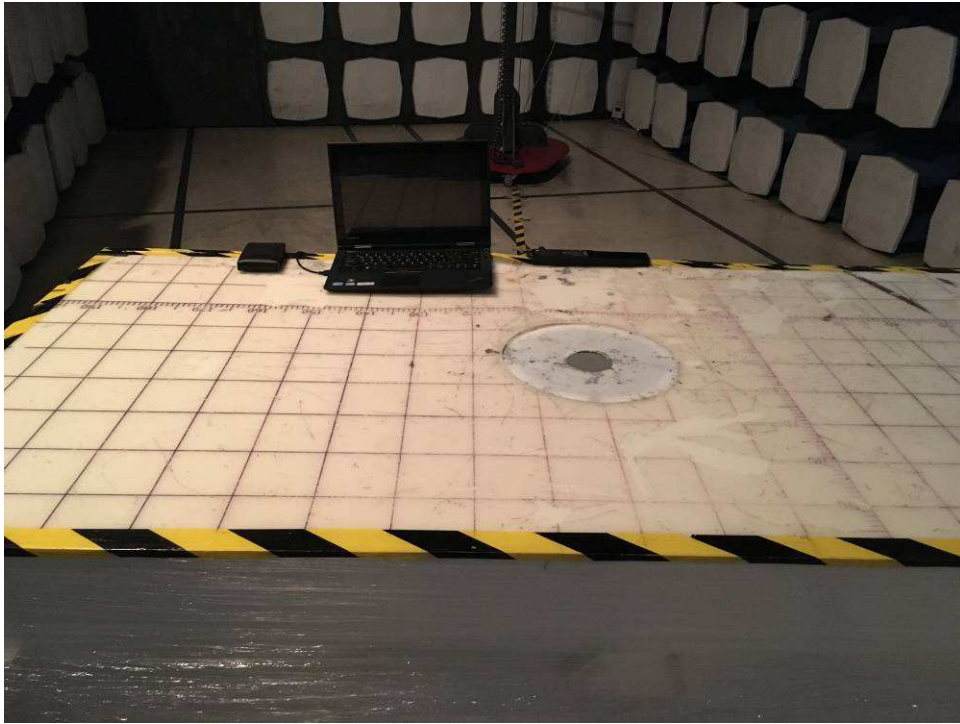
- 1) U17 as the main chip MCU
- 2) U5 as Charging chip IC
- 3) U11 as DDR IC
- 4) U13 as SPI FLASH 2MB SO8 IC
- 5) U10 as DSP IC
- 6) Y1 as the 12MHz crystals of DSP
- 7) Y2 as the 32.768KHz crystals of DSP
- 8) X1 as the 40MHz crystals of Wifi Module
- 9) U14 as the Sd booth IC
- 10) U18 as Light emitting transistor IC
- 11) U16 as The image decoding chip
- 12) RTL8196EU as MCM of Wifi
- 13) U1 as RTL8188ER IC of Wifi Module

Conducted Emission

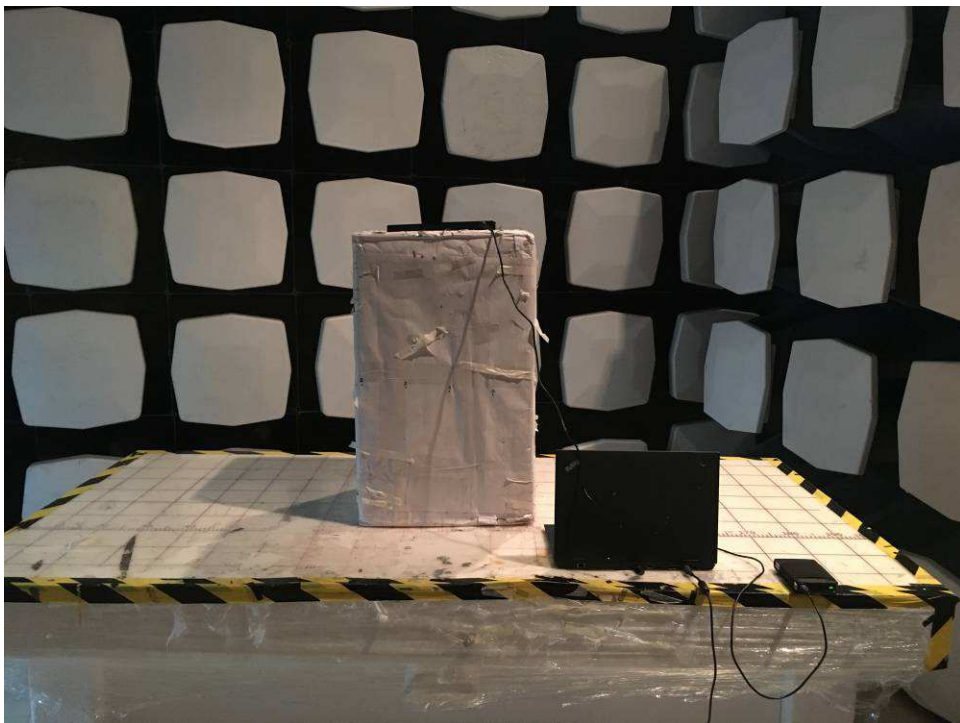


Radiated Emission

Up to 1GHz



Above 1GHz



External photos



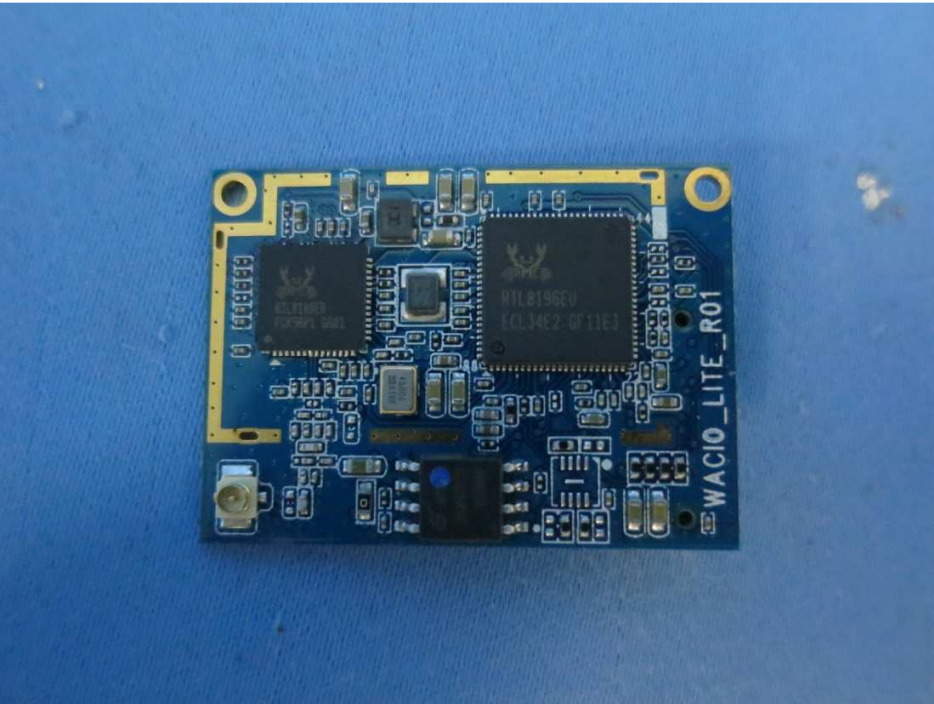


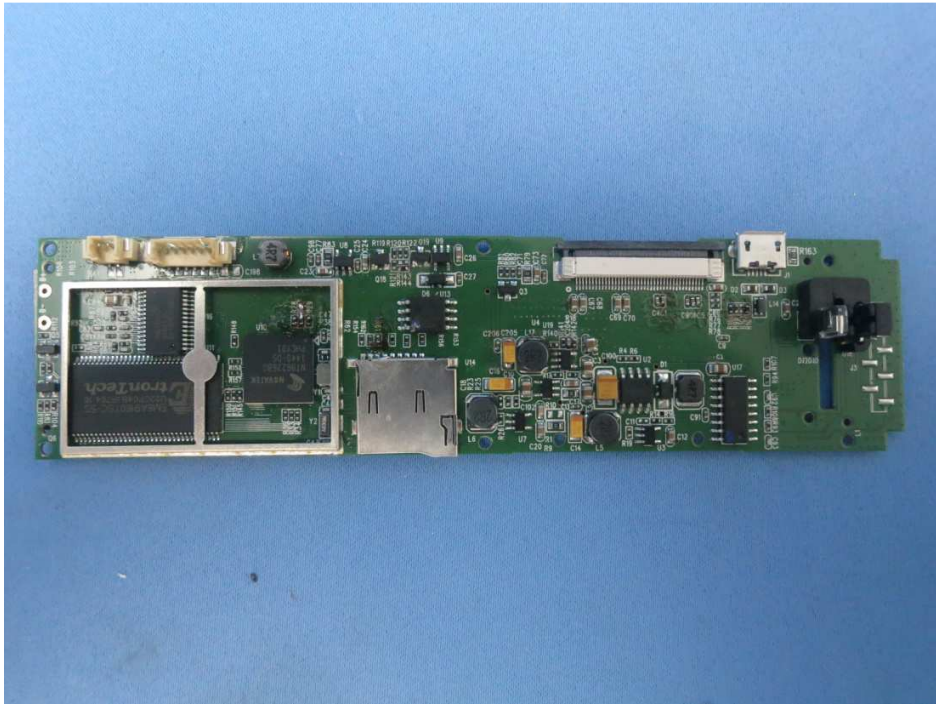


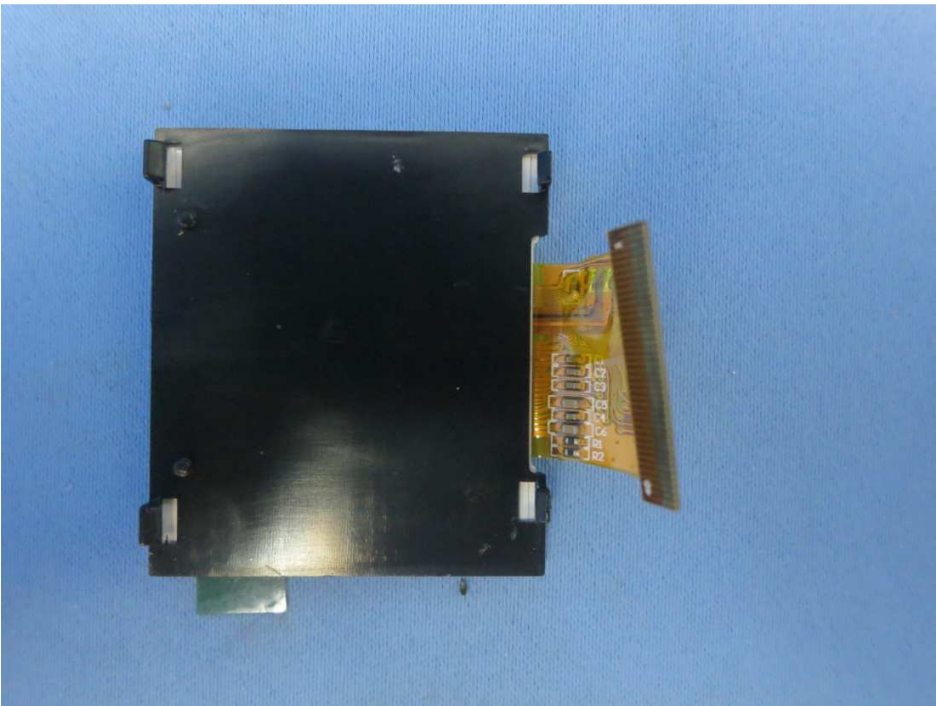
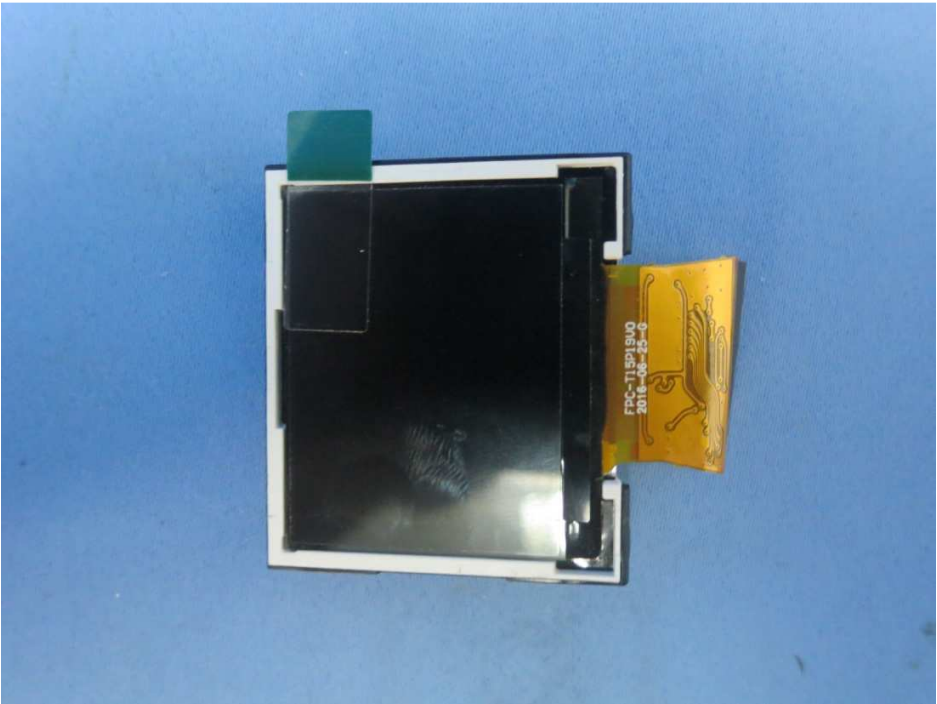


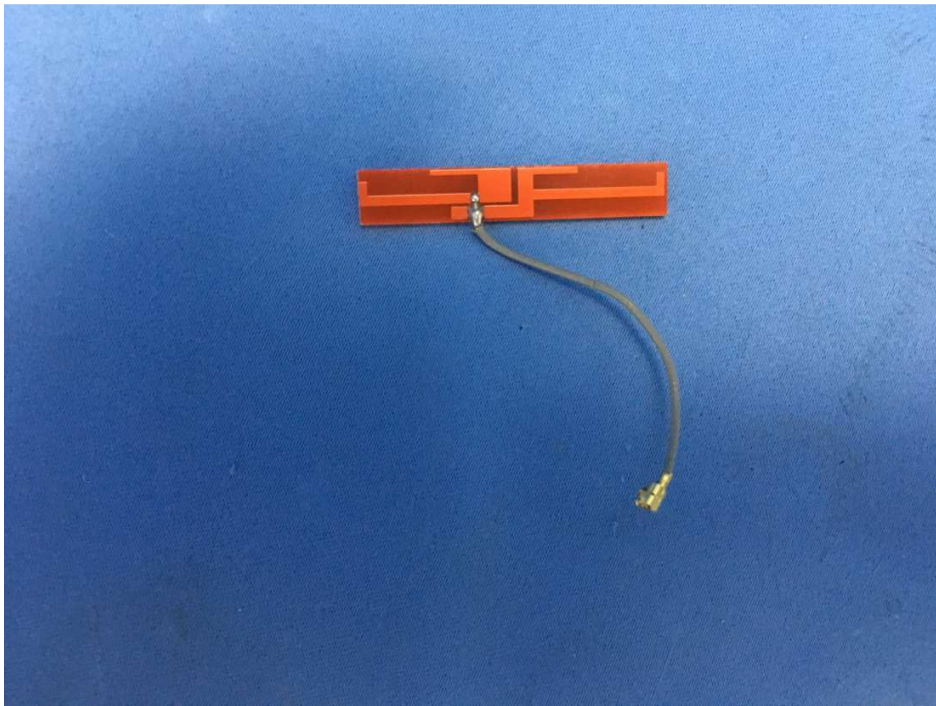
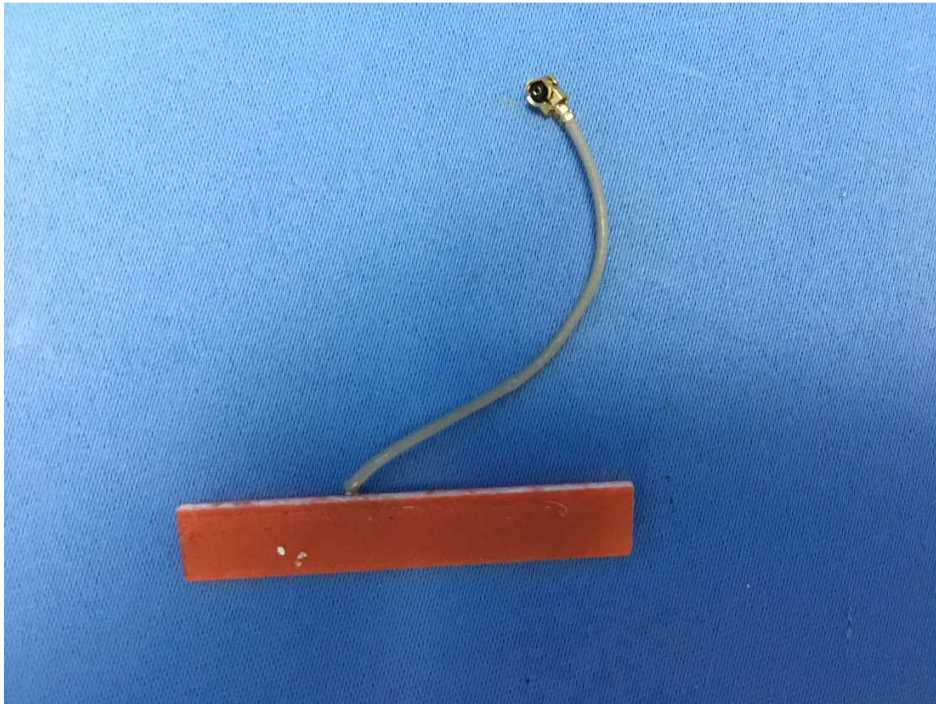
Internal Photos







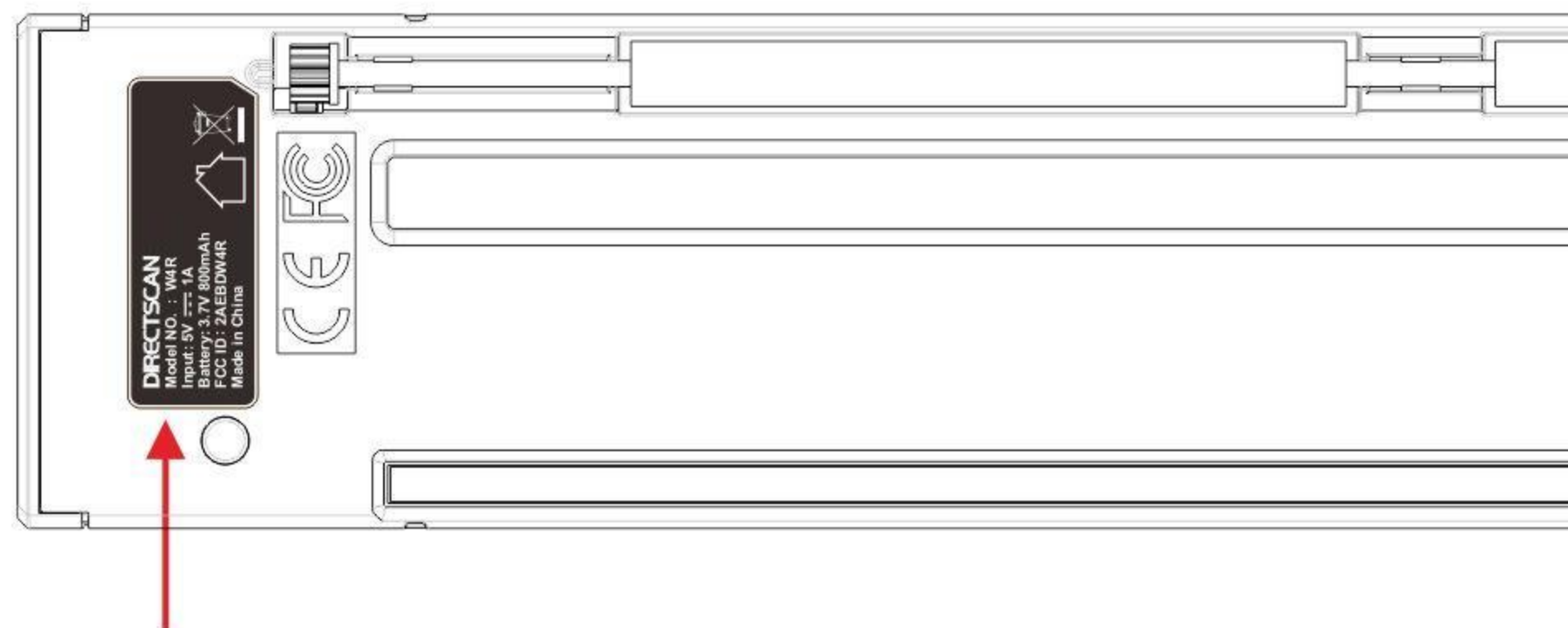








1 : 1



贴于此位置



放大1 : 3

物料材质 material

其它备注 note

消银龙，表面过光胶

24.9x9.5mm,圆角

印刷颜色 imprint color

黑底银字

 kenxen

深圳市康祥电子有限公司
Kenxen Electronic (SZ) Limited

制图

产品名称

W4R

物料名称

铭牌贴纸

审核

客户代码

KXN

物料编号

核准

发行日期

2016-09-19

图纸编号

5

4

3

2

1

Kenxen Elect (SZ) Ltd.

V01 First Version

Model : W4R / T4R

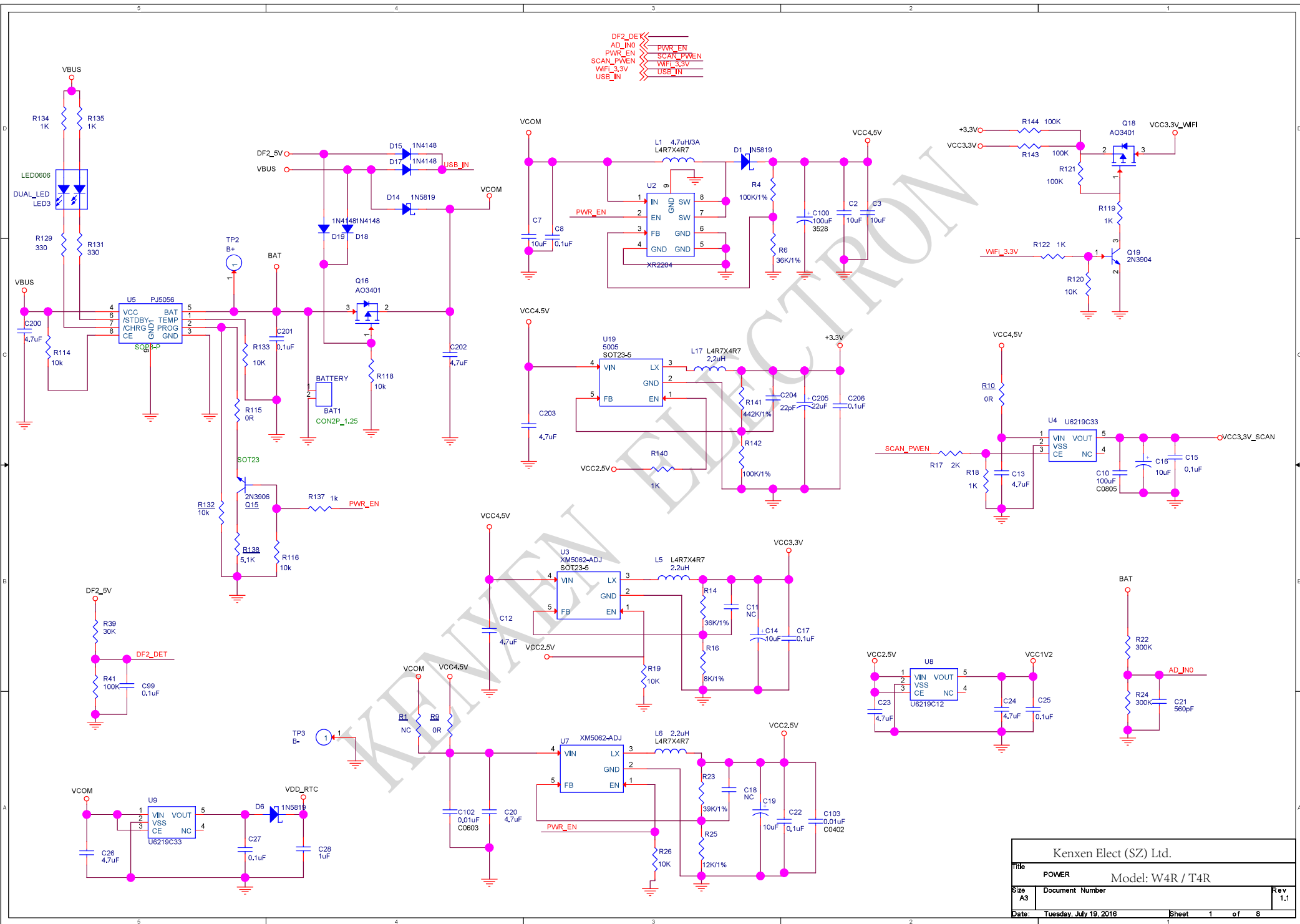
D

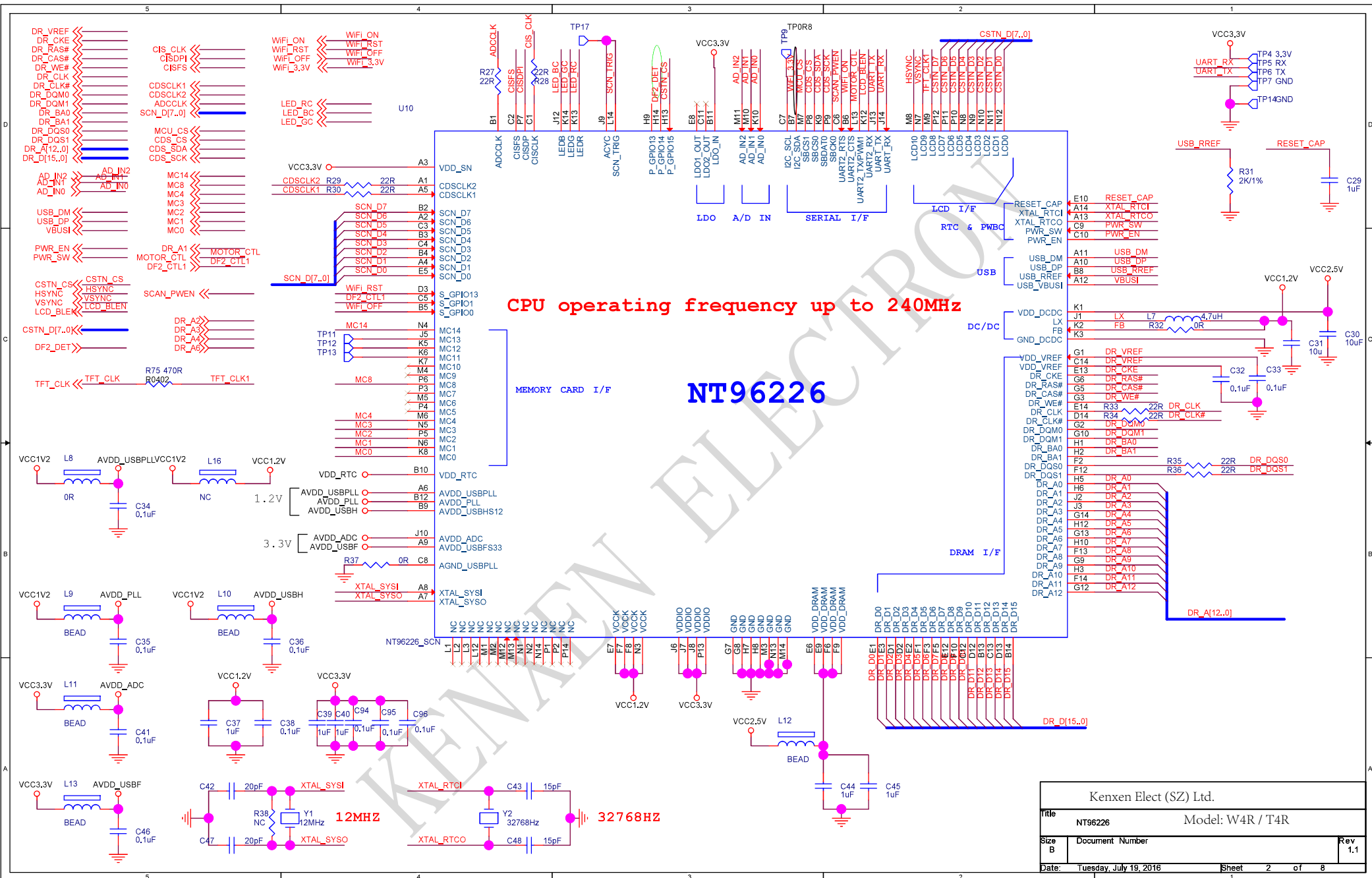
C

B

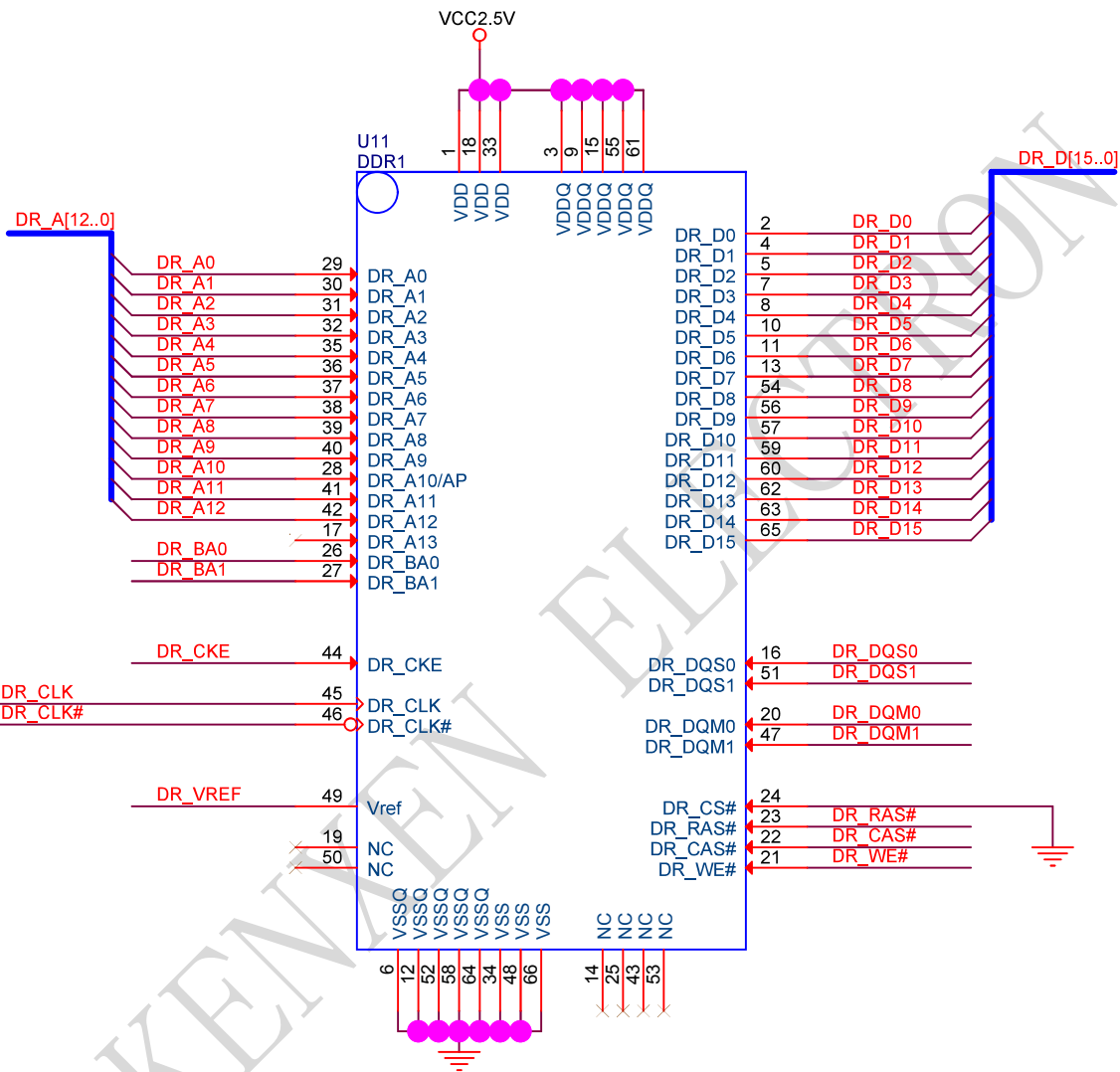
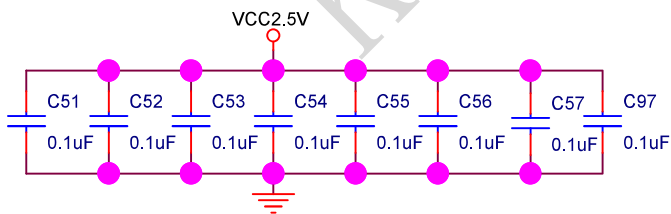
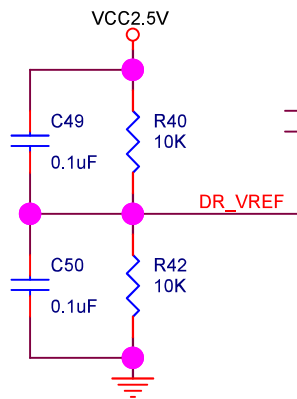
A

KENXEN ELECTRON





DR_VREF
 DR_CKE
 DR_RAS#
 DR_CAS#
 DR_WE#
 DR_CLK
 DR_CLK#
 DR_DQM0
 DR_DQM1
 DR_BA0
 DR_BA1
 DR_DQS0
 DR_DQS1
 DR_A[12..0]
 DR_D[15..0]

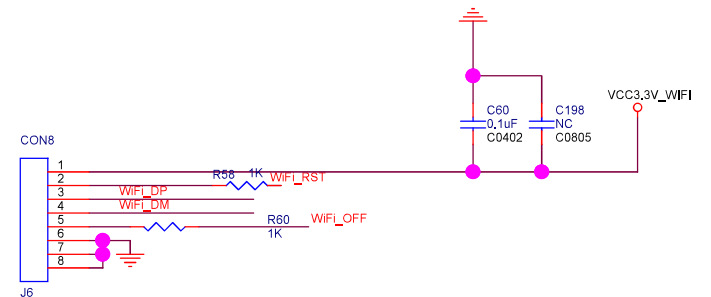
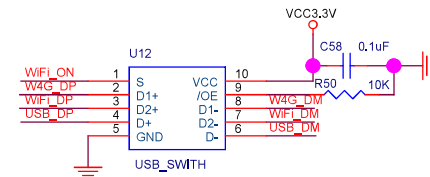
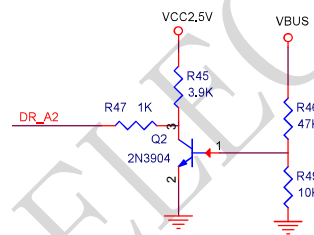
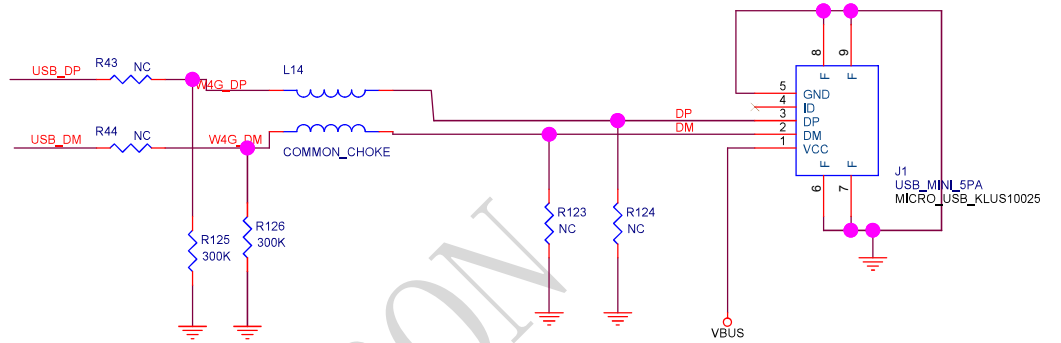
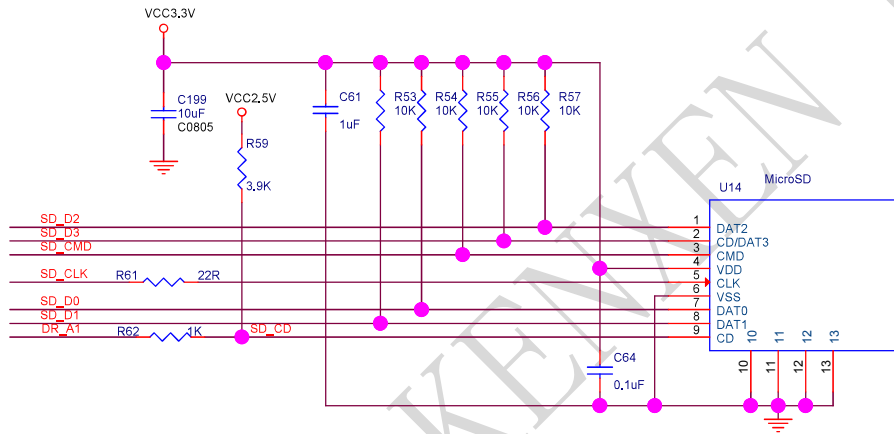
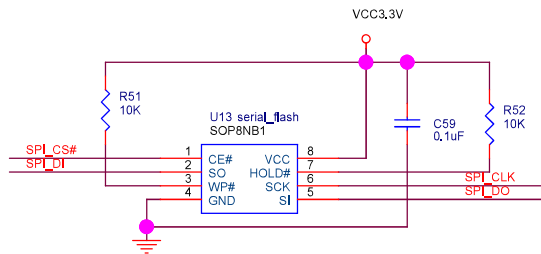
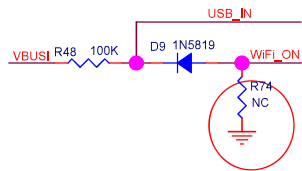


Kenxen Elect (SZ) Ltd.		
Title		Model: W4R / T4R
Size A	Document Number	Rev 1.1
Date: Tuesday, July 19, 2016	Sheet 3 of 8	

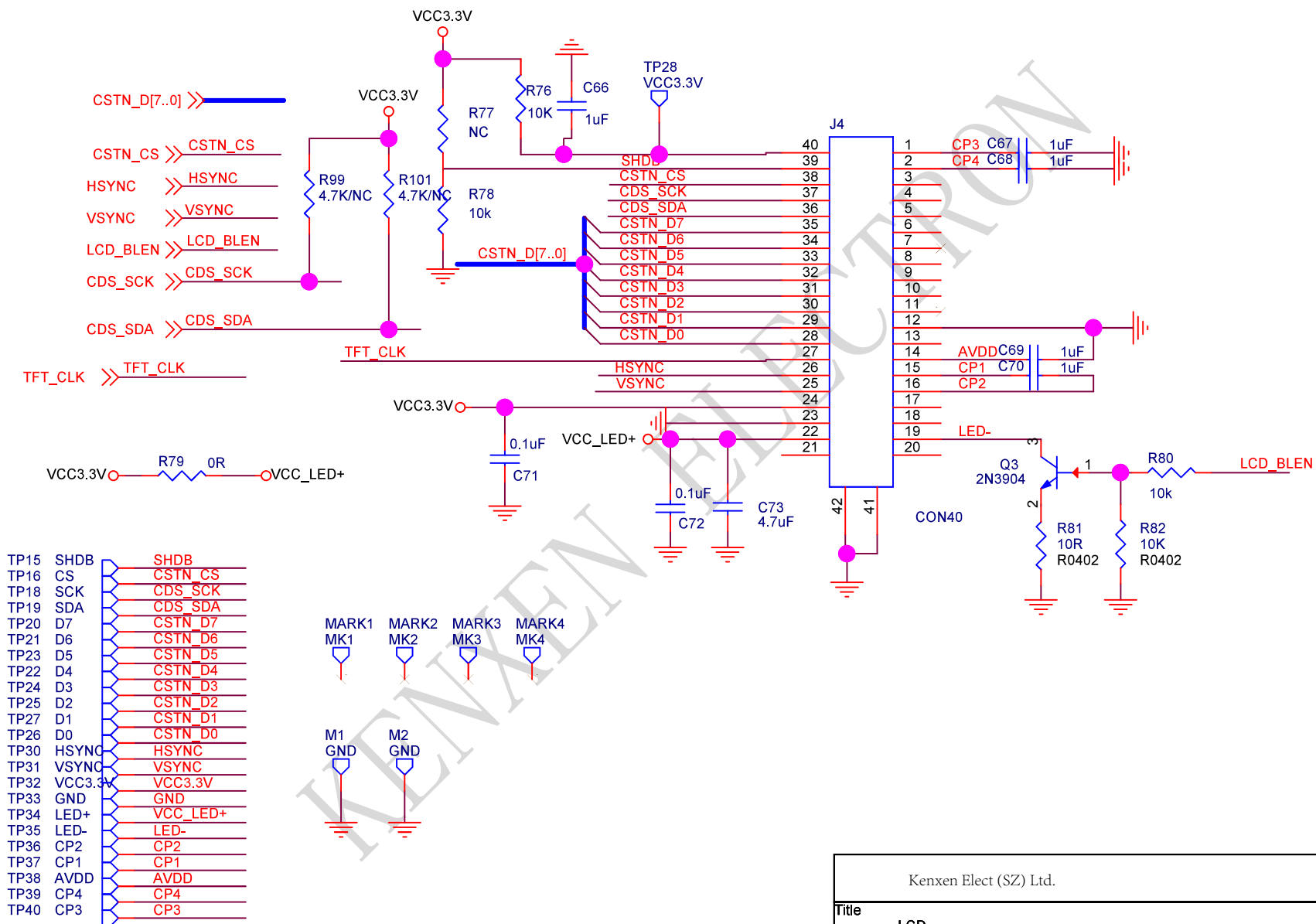
DP
DM
USB_DM
USB_DP
VBUS

MC14	MC8	SPL_CS#	SD_CLK
MC8	MC4		SD_CMD
MC4	MC3		SD_D3
MC3	MC2	SPL_CLK	SD_D2
MC2	MC1	SPL_DI	SD_D1
MC1	MC0	SPL_DO	SD_D0
MC0	DR_A1		
DR_A1	DR_A2		

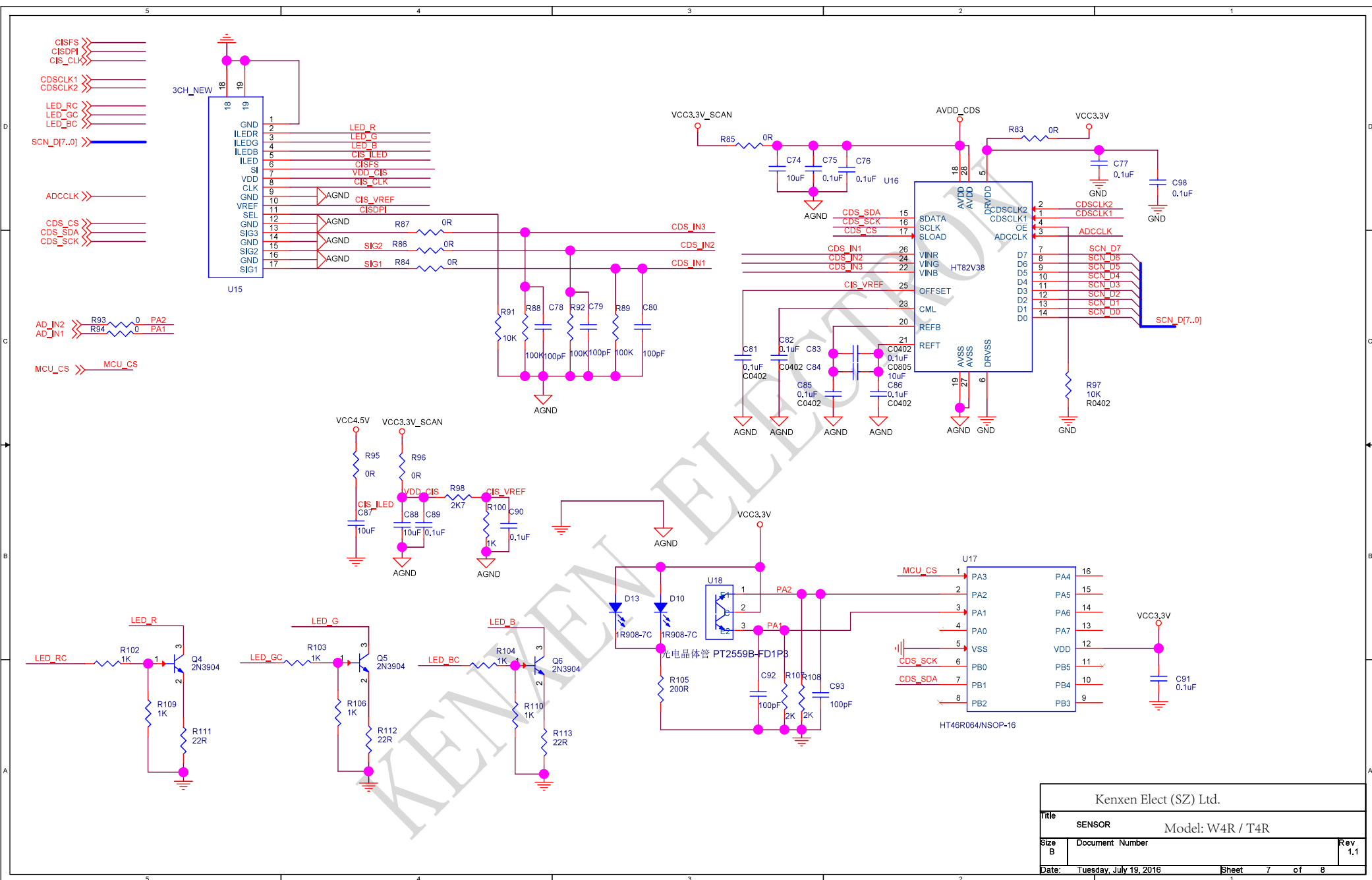
WiFi_ON
WiFi_RST
WiFi_OFF
USB_IN



Kenxen Elect (SZ) Ltd.			
Title		Model: W4R / T4R	
Size	Document Number	Rev	
B		1.1	
Date:	Tuesday, July 19, 2016	Sheet	4 of 8



Kenxen Elect (SZ) Ltd.		
Title		
LCD		Model: W4R / T4R
Size	Document Number	Rev
A		1.1
Date:	Tuesday, July 19, 2016	Sheet 6 of 8



[5] RDIN4 >> RDIN4
[5] RDP4 >> RDP4
[5] TDON4 >> TDON4
[5] TDOP4 >> TDOP4

10/100M PHY
Interface

SDRAM Selection for
populate R164

DDR1 Selection for
populate R165, C239
and C234

[4] MA3 >> MA3
[4] MA4 >> MA4
[4] MA8 >> MA8
[4] MA9 >> MA9
[4] MA10 >> MA10
[4] MA12 >> MA12

[4,5] U0TXD >> U0TXD
Configure
Interface

[5] U0RXD >> U0RXD

[5] GPIOB6 >> GPIOB6
[5] GPIOB5 >> GPIOB5
[5] GPIOA4 >> GPIOA4
[5] USB_DN >> USB_DN
[5] USB_DP >> USB_DP
GPIO and USB

C224, C229 close to U17

HSIN C224 HSIN E
HSIP C229 HSIP E
[6] PERSTB >> PERSTB
[6] CLK+_HOST >> CLK+_HOST
[6] CLK-_HOST >> CLK-_HOST
[6] HSON >> HSON
[6] HSOP >> HSOP
[6] HSIN >> HSIN
[6] HSIP >> HSIP
[6] CK_40M >> CK_40M

PCI-E Interface

C239 and C234
close to pin74

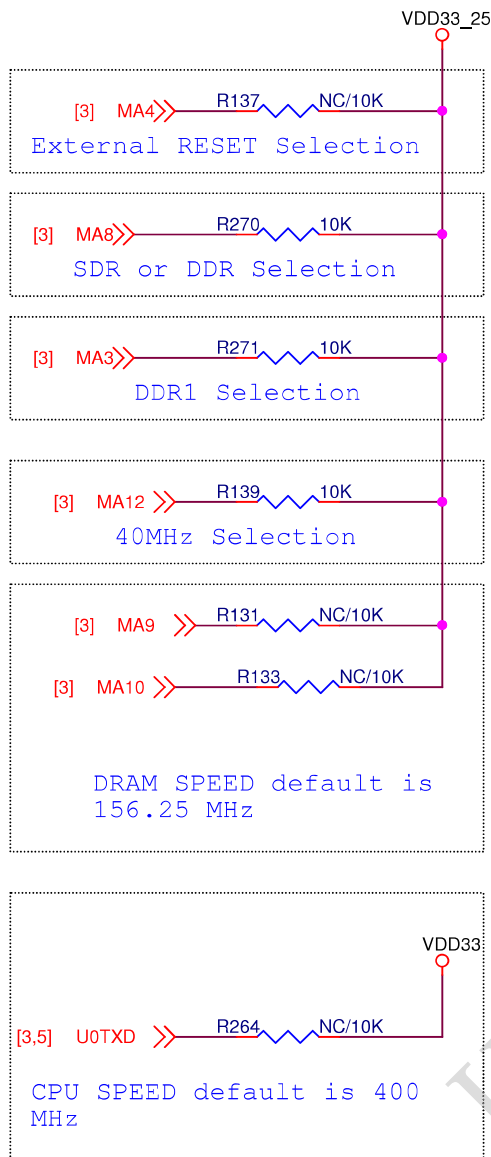
RTL8196EU_MCM

8 pins SPI Flash
Only for Single
I/O or Dual I/O

DDR1 Selection
for populate
R162, R163 and
C241

Kenxen Elect (SZ) Ltd.			
Title			
Model: W4R			
Size	Document Number	Rev	
Custom	CPU / SDRAM / FLASH	R01	
Date:	Thursday, March 12, 2015	Sheet	of
		1	

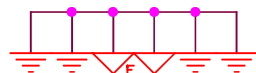
Strap Pin Definition



pin name	function name	function detail
PIN_M_A4	ENABLE_EXT_RSTN	ENABLE_EXT_RSTN 1=enable 0=disable
PIN_M_A8	DRAM_TYPE[1]	DRAM_TYPE[1] 1=DDR 0=SDR (Default)
PIN_M_A3	DRAM_TYPE[0]_INV	DRAM_TYPE[0]_INV 1=DDR1 0=DDR2 (Default)
PIN_M_A12	sel_40m	1=40MHZ 0=25MHZ (default)

		ck_m2x_freq_sel[2:0] (MHZ)
PIN_M_A9	ck_m2x_freq_sel[0]	000: 156.25 100: Reserved
PIN_M_A10	ck_m2x_freq_sel[1]	001: Reserved 101: 125
FW Control	ck_m2x_freq_sel[2]	010: Reserved 110: Reserved
		011: Reserved 111: Reserved

		ck_cpu_freq_sel[3:1] (MHZ)
FW	ck_cpu_freq_sel[3]	000: 400MHz 100: 320MHz
bit[3:2]	ck_cpu_freq_sel[2]	001: 380MHz 101: 300MHz
U0TXD	ck_cpu_freq_sel[1]	010: 360MHz 110: 280MHz
		011: 340MHz 111: 260MHz



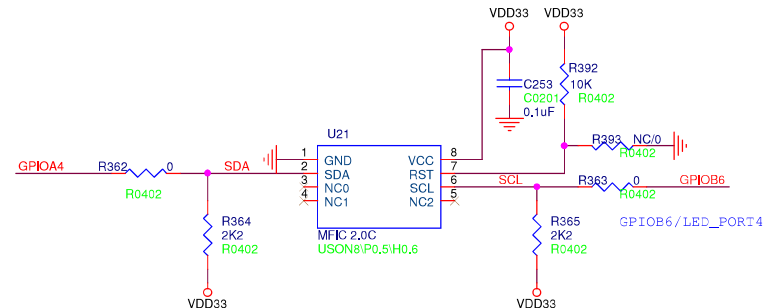
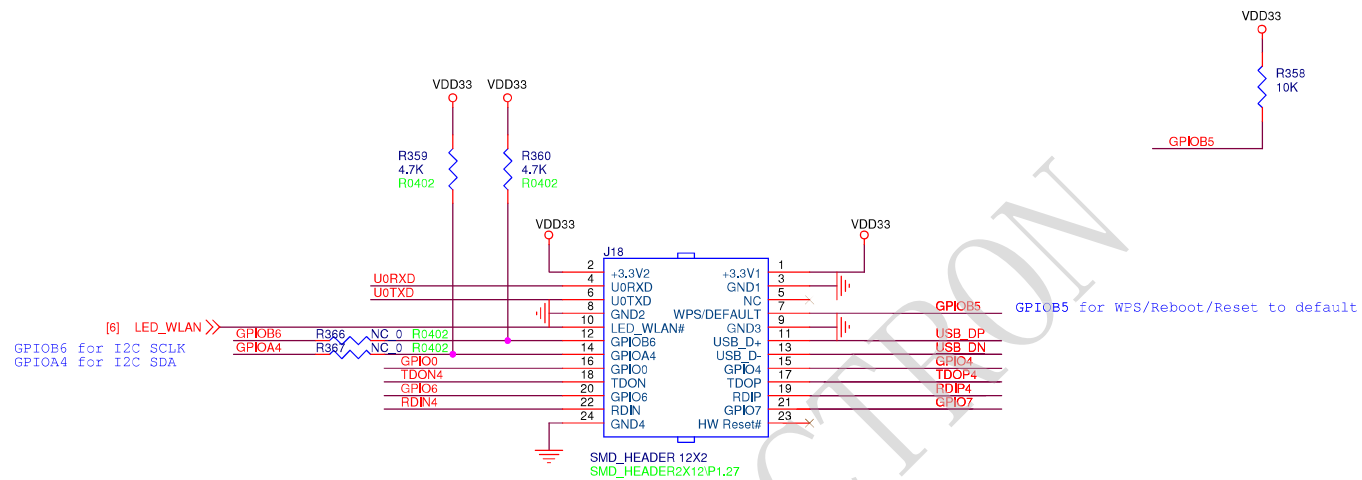
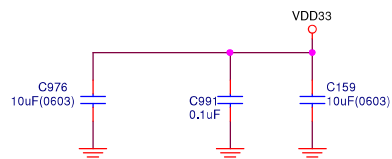
Kenxen Elect (SZ) Ltd.		
Title		
Model: W4R		
Size A	Configure Interface	
Date: Thursday, March 12, 2015	Sheet	of
		Rev R01

[3,4] U0TXD >> U0TXD
[3] U0RXD >> U0RXD
UART Interface

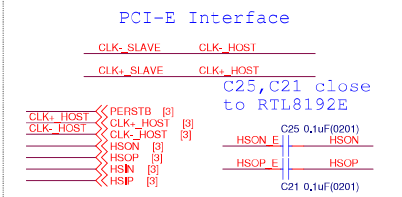
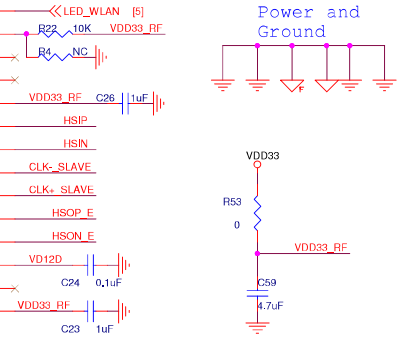
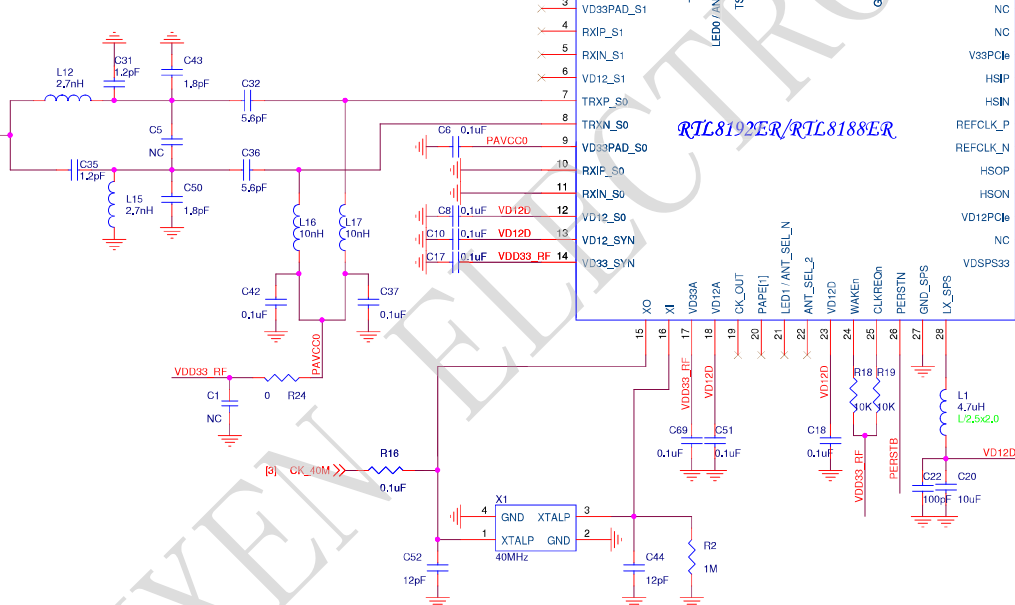
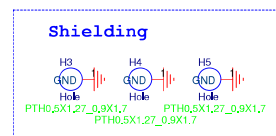
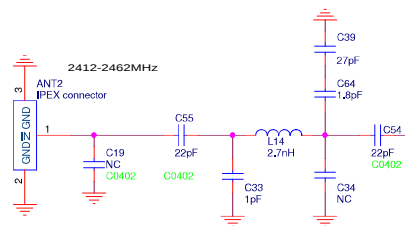
[3] USB_DN >> USB_DN
[3] USB_DP >> USB_DP
USB Interface

[3] GPIOB6 >> GPIOB6
[3] GPIOB5 >> GPIOB5
[3] GPIOA4 >> GPIOA4
GPIO
[6] GPIO0 >> GPIO0
[6] GPIO4 >> GPIO4
[6] GPIO6 >> GPIO6
[6] GPIO7 >> GPIO7

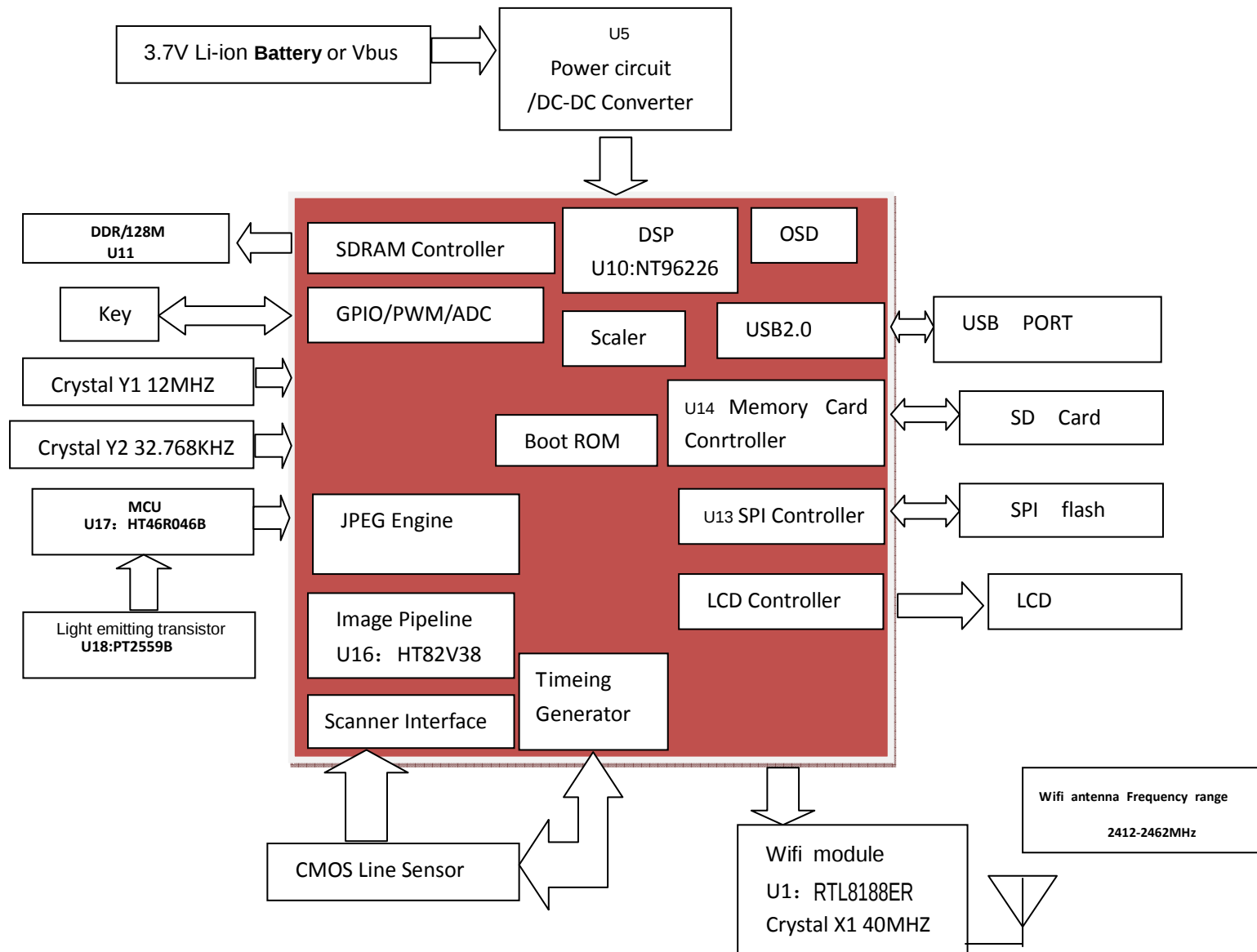
[3] RDIN4 >> RDIN4
[3] RDIP4 >> RDIP4
C104 10pF
C103 10pF
[3] TDON4 >> TDON4
[3] TDOP4 >> TDOP4
C106 10pF
C105 10pF
10pF for lowing EMI
10/100M PHY Interface

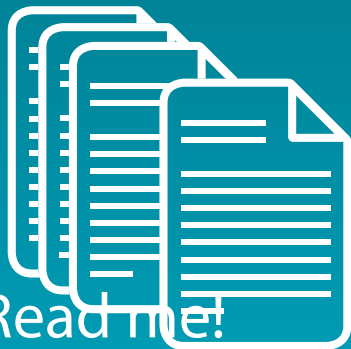


Kenxen Elect (SZ) Ltd.			
Title			
Model: W4R			
Size	Module Pins / MFIC		Rev
B			R01
Date:	Thursday, March 12, 2015	Sheet	of



Kenxen Elect (SZ) Ltd.			
Title		Model: W4R	
Size	Document Number	RTL8188ER	
Custom			
Date:	Thursday, March 12, 2015	Sheet	of





English

Dear Madam, Sir,

Thank you for purchasing an IRIS product and for your trust in our company.

At IRIS, we take great pride in our work and we view our role not only as a corporate contributor, but also as a global citizen. Because we strongly believe that pursuing a sustainable future is necessary we have committed to addressing sustainability in the most serious way.

As part of this effort, we have decided to provide digital versions of all Quick User Guides, software, drivers,... that come with our products.

Thank you for your understanding,

Your IRIS team

▷ **Software and driver downloads**

Just go to www.irislink.com/start and download your new software.

▷ **Quick User guide/Warranty**

If you want to download the PDF versions of the Quick user guides of our products please go to the following link: www.irislink.com/support

▷ **How To register?**

Once the product is installed, simply go to www.irislink.com/register and follow the instructions. FREE online support is only offered to registered users.

▷ **Safety Guidelines**

At IRIS we do care about our clients' well-being. This is why we have defined clear guidelines recommending a realistic use of our mobile scanners in order to prevent accidents and ensure your health and safety. You will find them here: www.irislink.com/safetyguidelines

▷ **Product certificates**

Official certificates compliance of our products are available at www.irislink.com/certificates



Français

Madame, Monsieur,

Nous vous remercions de votre achat et de la confiance que vous témoignez à IRIS. Si nous sommes fiers du chemin que nous avons parcouru, nous considérons que notre société a un rôle à jouer non seulement en tant que fournisseur de services et de solutions mais aussi en tant que citoyen du monde. Comme nous sommes convaincus que tout doit être fait pour assurer un avenir durable aux générations futures, nous voulons nous investir encore davantage dans la durabilité.

Dans le cadre de cette initiative, nous avons décidé de proposer des versions numériques de tous les logiciels, pilotes, guides de démarrage, etc. fournis avec nos produits.

Nous vous remercions de votre compréhension.

L'équipe d'IRIS

▷ Téléchargement de logiciels et de pilotes

Accédez simplement au site www.irislink.com/start et téléchargez votre nouveau logiciel.

▷ Guides de démarrage et garanties

Pour télécharger les versions PDF des guides de démarrage de nos produits, cliquez sur le lien suivant : www.irislink.com/support

▷ Comment s'enregistrer ?

Une fois le produit installé, accédez simplement à la page www.irislink.com/register et suivez les instructions. Le support en ligne GRATUIT est réservé aux utilisateurs enregistrés.

▷ Consignes de sécurité

Toujours soucieux du bien-être de notre clientèle, nous avons voulu définir des consignes claires en matière d'utilisation de nos scanners mobiles afin d'éviter tout accident et d'assurer votre sécurité. Vous pouvez consulter ces consignes à la page suivante : www.irislink.com/safetyguidelines

▷ Certificats des produits

Les certificats de conformité officiels de nos produits sont disponibles à l'adresse suivante : www.irislink.com/certificates



Estimado señor o señora:

Muchas gracias por haber adquirido un producto de IRIS y por la confianza depositada en nuestra empresa.

En IRIS estamos muy orgullosos de nuestra labor y, por eso, valoramos nuestro papel no solo desde el punto de vista empresarial, sino como ciudadanos globales. Dado que creemos con firmeza que es necesario avanzar hacia un futuro más sostenible, nos hemos comprometido seriamente con la sostenibilidad de nuestras operaciones.

Como parte de esta estrategia, hemos decidido ofrecer las Guías rápidas del usuario, el software y los controladores que acompañan a todos nuestros productos en formato digital.

Muchas gracias por su comprensión. Atentamente,

El equipo de IRIS

▷ Descargas de software y controladores

Visite www.irislink.com/start y descargue su nuevo software.

▷ Guía rápida del usuario / garantía

Si desea descargar las versiones en PDF de las guías rápidas de nuestros productos, haga clic en este enlace: www.irislink.com/support

▷ Cómo registrarse

Una vez que haya instalado el producto, simplemente visite www.irislink.com/register y siga las instrucciones. Soporte técnico en línea GRATUITO solo para los usuarios registrados.

▷ Normas de seguridad

En IRIS nos preocupamos por el bienestar de nuestros clientes. Por ello, hemos definido unas normas de uso claras para nuestros escáneres portátiles con el fin de evitar accidentes y garantizar su seguridad. Haga clic en este enlace para consultarlas: www.irislink.com/safetyguidelines

▷ Homologaciones de productos

En el sitio web www.irislink.com/certificates se puede consultar la información oficial sobre las homologaciones de nuestros productos.



Lido me!



Estimado Sr./Sr.ª,

Obrigado por comprar um produto IRIS e por confiar na nossa empresa.

Na IRIS, temos orgulho no nosso trabalho e encaramos a nossa função não só como contribuidor empresarial mas também como cidadão global. Uma vez que acreditamos que a procura por um futuro sustentável é necessária, estamos empenhados em abordar a sustentabilidade da forma mais séria. Como parte deste esforço, decidimos fornecer versões digitais de todos os manuais do utilizador rápidos, software, controladores... incluídos com os produtos.

Obrigado pela sua compreensão,

A sua equipa IRIS

► Transferências de software e controladores

Aceda a www.irislink.com/start e transfira o seu novo software.

► Manual do utilizador rápido/Garantia

Se pretender transferir as versões PDF dos manuais do utilizador rápidos dos nossos produtos, aceda à hiperligação seguinte: www.irislink.com/support

► Como se registar?

Uma vez instalado o produto, basta aceder a www.irislink.com/register e seguir as instruções. A assistência online GRATUITA só é oferecida aos utilizadores registados.

► Diretrizes de segurança

Na IRIS, preocupamo-nos com o bem-estar dos nossos clientes. Por isso, definimos diretrizes claras que recomendam uma utilização realista dos nossos scanners móveis de modo a evitar acidentes e garantir saúde e segurança. Vai encontrá-los aqui: www.irislink.com/safetyguidelines

► Certificados do produto

Os certificados oficiais de conformidade dos nossos produtos estão disponíveis em www.irislink.com/certificates

MATCHING CABLE

Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.

For the electrostatic discharge (ESD)

test of EN55024, Wifi off, the results found that after the test need to manually operate (press the switch) to restore the normal operation.

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

CE:

Body worn operation

The device complies with RF specifications when used near your ear or at a distance of 0.5 cm from your body. Ensure that the device accessories, such as a device case and device holster, are not composed of metal components. Keep the device away from your body to meet the distance requirement.

FCC:

Certification information (SAR)

This device is also designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA).

The SAR limit adopted by the USA is 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported to the FCC for this device type complies with this limit.



Connect your new **Wifi scanner** to your **laptop!**



→ How to connect the IRIScan Book 5 Wifi device on Windows

- 1 Press the Scan button for 2 seconds to turn on the scanner. Press scan again.
- 2 Press the Wifi button on the scanner.
- 3 Turn on the Wifi connection on your PC and select the IRIScanBook-xxxxxxx network.
- 4 Enter the password 12345678.
- 5 Open a Web browser and enter 10.10.1.1 to access the scanned files.

Note: When connected to the IRIScan™ Book network, you do not have access to the Internet any longer.



Any other question?

Go to www.irislink.com/support
or refer to the Quick User Guide online.

→ connect your **mobile device**

Connect your new **Wifi scanner** to your **mobile device!**



→ To your **iPhone** or **iPad** thanks
to our dedicated App



- 1 Go to the Apple App Store.
- 2 Search for "Instant Result Wifi 2".
- 3 Install the free App on your mobile device.
- 4 Launch the app.

→ To your **Android Smartphone** or **tablet**
thanks to our dedicated App



- 1 Go to the Google Play Store.
- 2 Search for "Instant Result Wifi 2".
- 3 Install the App on your mobile device.
- 4 Launch the app.

→ connect your **laptop**



First use leaflet IRIScan™ Book 5

- 1 Software and user guides are available online at :
www.irislink.com/start



www.irislink.com/support

2



3



Press 3 seconds to turn on

4



Press 1 second to
Start & save scan

5



or





First use leaflet IRIScan™ Book 5 Wifi

- 1 Software and user guides are available online at :
www.irislink.com/start



www.irislink.com/support

2



3



Press 3 seconds to turn on

4



Press 1 second to
Start & save scan

5



or
or
or

[Http://10.10.1.1](http://10.10.1.1)



WIFI





2016-10-28

To whom it may concern,

Request for Permanent confidentiality
Under FCC Part 15 Certification

FCC ID: **2AEBDW4R**

Request is hereby submitted by **Kenxen Electronic (SZ) Limited** to withhold permanently from public review certain portions of the application for equipment certification for the referenced FCC identifiers. This request for confidentiality is made pursuant to 47 CFR 0.457(d) and 0.459 of the FCC Rules. In particular, the following sections of the application are to be kept permanently confidential and **Kenxen Electronic (SZ) Limited** reserves the right to discern which parties can obtain access to these information:

- Schematics
- Detailed Block diagrams
- Detailed Operational/Functional Description

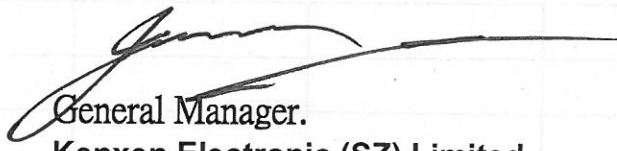
The rationale for request for confidentiality is as followings:

This information represents intellectual property of **Kenxen Electronic (SZ) Limited** and it is subject to competition. We have invested considerable time and materials in research and development to produce the referenced product. Disclosure of the permanently confidential portions of this application to competitors would not only give them significant competitive advantages in developing similar products, but would also disclose successful implementation of unpublished, leading edge technology developed by us.

If you have questions or need further information, please contact the undersigned.

Sincerely,
[Signature]

[Title]
[Company name]


General Manager.
Kenxen Electronic (SZ) Limited

APPENDIX B

[13-Oct-2016]

To whom it may concern,

Letter of Agency

I, an officer of Kenxen Electronic (SZ) Limited. do hereby authorize Intertek Testing Services (Stella Yang) to act on our behalf in front of the Federal Communications Commission with respect to all matters relating to certification of equipment under Part 15 and/or Part 95 of the FCC Rules until further notice.

I further certify that no party (as defined in §1.2002(b) of CFR 47, 2007) to this application, including myself, is subject to a denial of federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C., 862.

Regards,



Jason Lim
General Manager