



Manual of iNIC card

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Introduction

Ralink Smart NIC card for connect to GW or STB to do wireless video streaming:

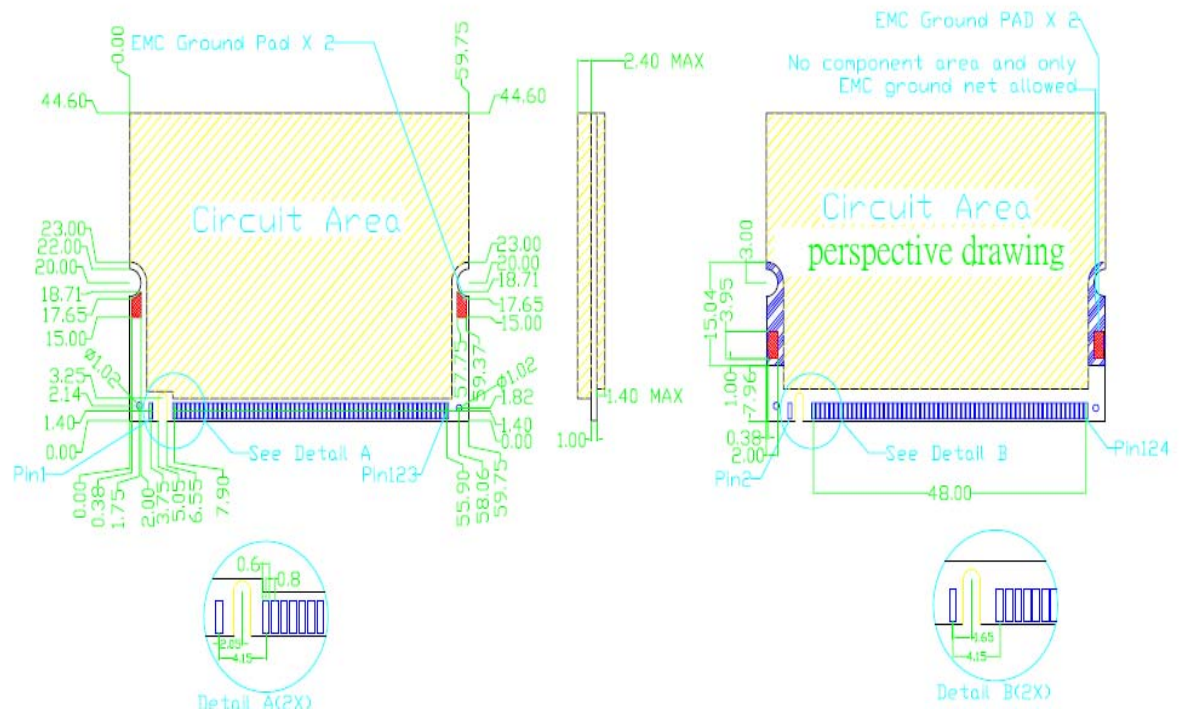
Ralink 2880+2820

802.11n 2.4G only

2T3R

4-layer

PCB dimension: 59.75mm*40.60mm



Hardware Specification

Chipset/Component:

IC	description
CPU/MAC/BB	RT2880 (mips4kec, 266Mhz)
DRAM	8 Mbytes
Flash	N/A
EEPROM	2 kbit
Wireless RF	RT2820
Wireless Antenna	3 antennas
Operating temp.	0~40°C
Storage temp	-20°C~70°C
Humidity	0 – 85%

WLAN TX Power:

802.11g: Typical 14dBm @ Normal Temp Range +/- 1 dbm

802.11b: Typical 18dBm @ Normal Temp Range +/- 1 dbm

Receive Sensitivity:

802.11g:

-80dBm@11Mbps

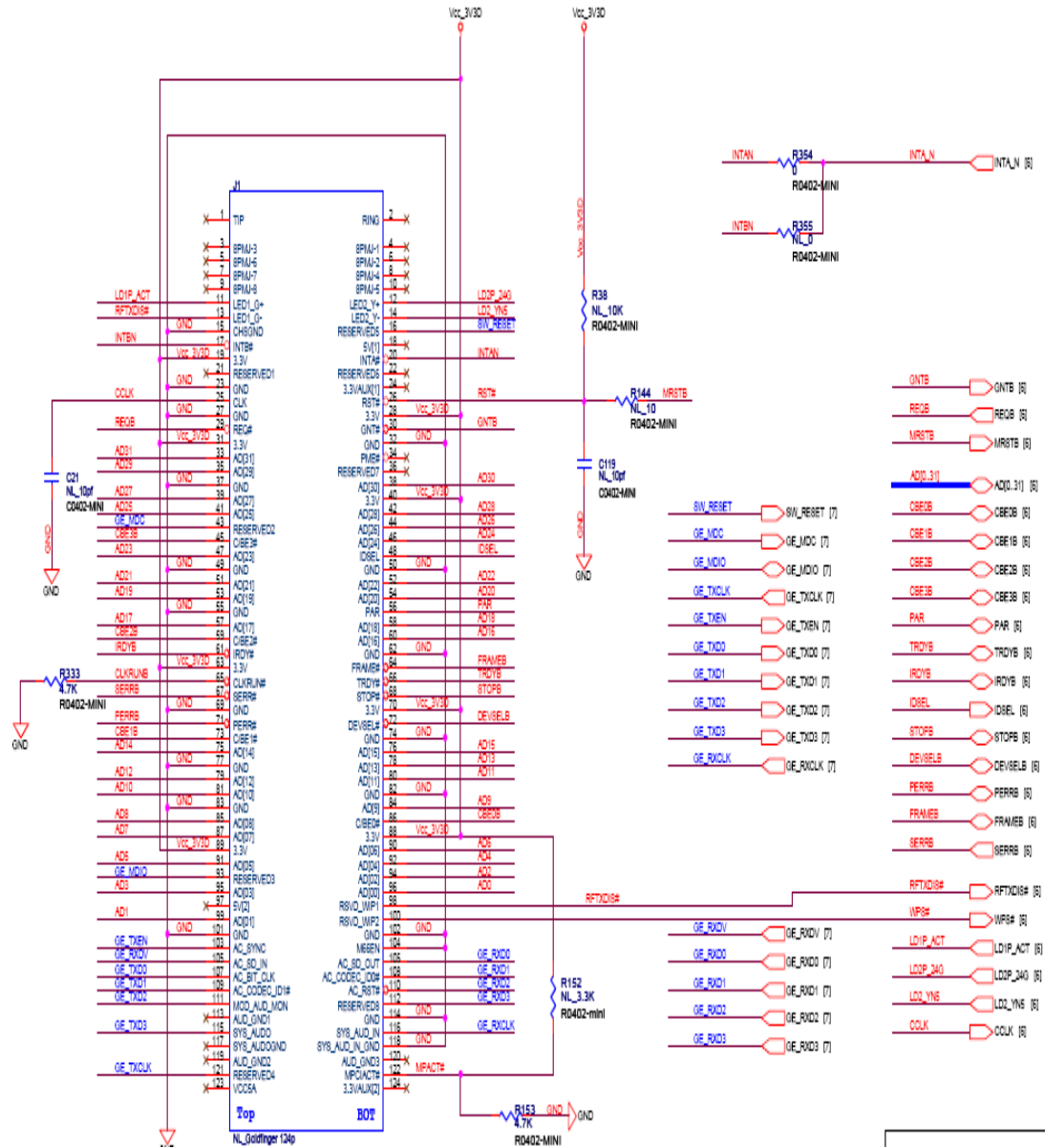
-72dBm@54Mbps Typical

Antenna:

Need pass FCC cert with following antennas:

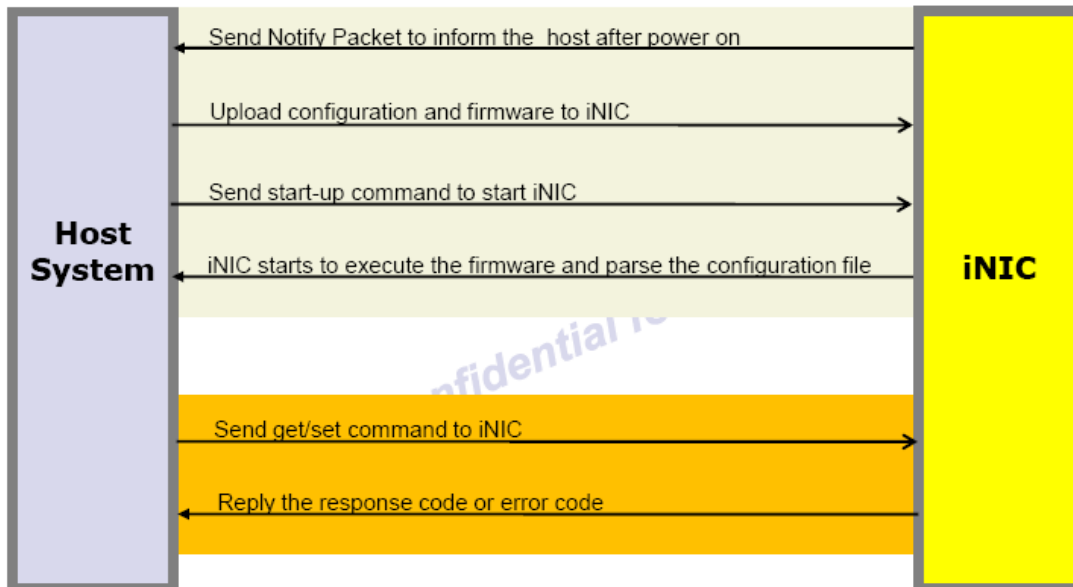
PIFA Antenna

PCI Interface definition:



Features

FW communicate Between Host and iNIC



Operation

1. Plug in iNIC card to platform PCI connector
2. Power on platform
3. iNIC driver which run in platform will detect iNIC card
4. An interface ra0 will be found, which is for iNIC card
5. For this interface ra0, by default it will work as an access point
6. Configure SSID, channel ... etc for ra0 interface
7. An client card or other station may scan this SSID and connect to iNIC card.
8. then a wireless connection will be established.

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

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.