

IN-7961AND

Atheros 2T2R 802.11a/b/g/n Full-Offload USB module

IN-7961AND in brief:

- 2T2R 802.11a/b/g/n Dual Band Full-Offload Wireless LAN card
- Main chipset: Atheros AR9342 802.11n 2X2 2.4/5GHz SoC.
- Supports USB interfaces (USB2.0/1.1 Type A connector)

Outlook



Application:



Smart TV



IN-7961MND



5GHz



Dual-band AP



STB/media player/blue ray



IN-7961MND



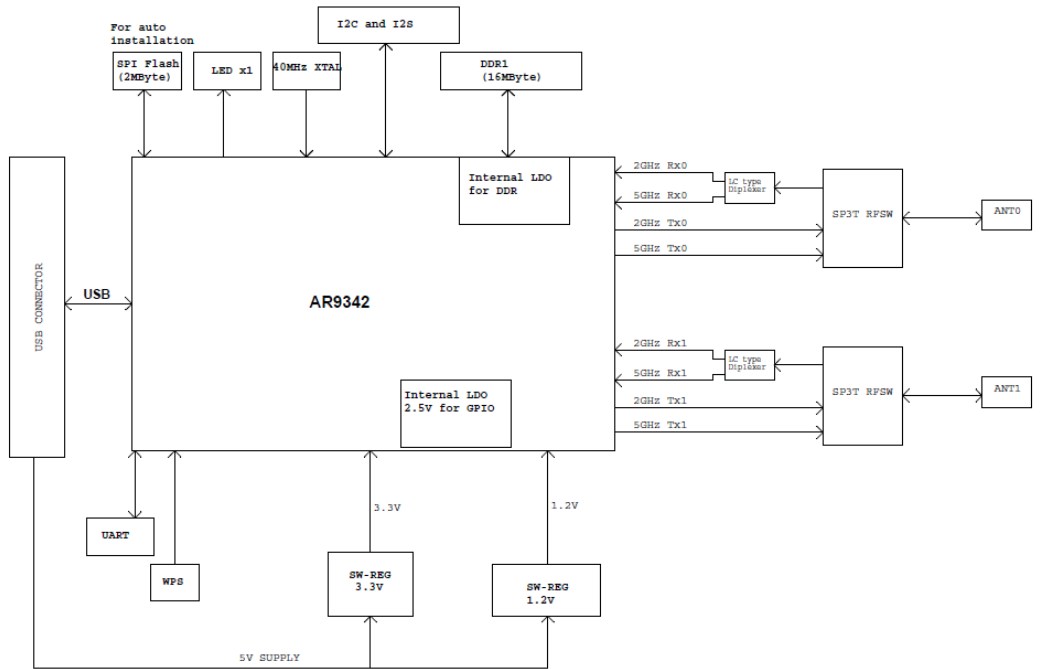
5GHz



2.4GHz



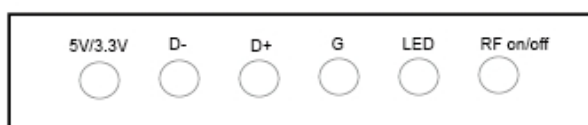
Block Diagram:



LED behavior:

LED Name	Light Status	Description
Radio Off	Off	Wireless LAN function is disabled.
Radio On	Off	No link to wireless AP or Router
(No Link)	Slow blinking	Transmitting management information.
Radio On	On	Link to wireless AP or Router
(Link to AP or Router)	Blinking	Transmitting data or management information. If user activates WPS mode (hold WPS button for 4 seconds), the LED will be still blinking.

Pin definition:



Specification:

1. Major Component

- Main Chipsets: Atheros AR9342 (MIPS74Kc)
- SPI Flash: 2MB
- SDRAM: DDR1 16MBytes
- Antenna: I-PEX connectors x 2

2. Frequency Band

- 2.4000~2.4835GHz (subject to local regulations)
- 5.150~5.825GHz (subject to local regulations)

3. Data Rate

- 11a: 6/9/12/24/36/48/54Mbps
- 11b: 1/2/5.5/11Mbps
- 11g: 6/9/12/24/36/48/54Mbps
- 11n (20MHz): MCS0-15, up to 144Mbps
- 11n (40MHz): MCS0-15, up to 300Mbps

4. Output Power

2.4GHz:

- 11b:15dBm,
- 11g:12dBm
- 11n (20MHz):11dBm; 11n(40MHz): 11dBm

5GHz:

- 11a: 11dBm
- 11n(20/40MHz): 8dBm

5. Sensitivity

2.4GHz:

- 11b:-79dBm,
- 11g:-65dBm
- 11n (20MHz):-64dBm; 11n(40MHz): -61dBm

5GHz:

- 11a: -65dB,
- 11n(20MHz): -64dB ;11n(40MHz): -61dBm

1. Interface

- USB 2.0 type A
- WPS button
- 6- pin USB pin header:

6. PCB Dimension: 70 x 25mm

7. Environment

- Operating Temp: 0~40oC
- Non-operating Temp: -20~60°C
- Humid: 10~90%
- Operating Temperature : -20~60°C

8. Quality

- MTBF exceed 100K hours/25°C
- MTBF exceed 75K hours/40°C