2. LAN to WLAN

(1) PC or NoteBook (Data) → RTL8201BL: PHY

1. Analog signal (Data) is going to transform Digital signal.

(2) RTL8201BL: PHY→ RTL8181: LAN MAC+CPU+WLAN MAC+ BASEBAND

1. Digital signal (Data) is going to transform Analog signal.
2. Analog signal (Data) is going to modulate I & Q signal.

(3) RTL8181: LAN MAC+CPU+WLAN MAC+ BASEBAND→ SA2400: TRANSCEIVER

1. Automatic Gain Control.
2. Phase Lock Loop.
3. Band Pass Filter.
4. Power Amplifier.
5. Up Converter.

(4) SA2400: TRANSCEIVER→AP1045: PA

1. Signal can be amplifier.

(5) AP1045: PA→TX/RX SWITCH→BPF→ANTENNA→TRANSMIT SIGNAL

3. WLAN to LAN

(1) RECEIVE SIGNAL→ANTENNA→BPF→TX/RX SWITCH→RF2472: LNA→SA2400 : TRANSCEIVER

1. Automatic Gain Control.
2. Phase Lock Loop.
3. Band Pass Filter.
4. Low Noise Amplifoer.
5. Down Converter

(2) SA2400 : TRANSCEIVER→RTL8181: LAN MAC+CPU+WLAN MAC+ BASEBAND

1. I & Q signal is going to demodulate analog signal.
2. Analog signal is going to transform Digital signal (Data).

(3) RTL8181: LAN MAC+CPU+WLAN MAC+ BASEBAND→ RTL8201BL: PHY

1. Digital signal (Data) output from LAN MAC.

(4) RTL8201BL: PHY→PC or NoteBook (Data)

1. Digital signal (Data) is going to transform Analog signal.

4. WLAN to WLAN

(1) RECEIVE SIGNAL→ANTENNA→BPF→TX/RX SWITCH→RF2472:
LNA→SA2400 : TRANSCEIVER

1. Automatic Gain Control.
2. Phase Lock Loop.
3. Band Pass Filter.
4. Low Noise Amplifoer.
5. Down Converter

(2) SA2400 : TRANSCEIVER→RTL8181P: LAN MAC+CPU+WLAN MAC+
BASEBAND

1. I & Q signal is going to demodulate analog signal.
2. Analog signal is going to transform Digital signal (Data).

(3) RTL8181: LAN MAC+CPU+WLAN MAC+ BASEBAND→ SA2400:
TRANSCEIVER

1. Automatic Gain Control.
2. Phase Lock Loop.
3. Band Pass Filter.
4. Power Amplifier.
5. Up Converter.

(4) SA2400: TRANSCEIVER→AP1045: PA

1. Signal can be amplifier.

(5) AP1045: PA→TX/RX SWITCH→BPF→ANTENNA→TRANSMIT SIGNAL