

Circuit Description

The equipment under test is a 2.4GHz transceiver with 79 channels operating at 2402 - 2480 MHz. It is powered by 3.7VDC (1 Li-battery). It connects to the Wii console by Bluetooth protocol.

Channel List:

Frequency(MHz):

2402 2403 2404 2405 2406 2407 2408 2409 2410
2411 2412 2413 2414 2415 2416 2417 2418 2419
2420 2421 2422 2423 2424 2425 2426 2427 2428
2429 2430 2431 2432 2433 2434 2435 2436 2437
2438 2439 2440 2441 2442 2443 2444 2445 2446
2447 2448 2449 2450 2451 2452 2453 2454 2455
2456 2457 2458 2459 2460 2461 2462 2463 2464
2465 2466 2467 2468 2469 2470 2471 2472 2473
2474 2475 2476 2477 2478 2479 2480

Modulation Type: GFSK, $\pi/4$ -DQPSK

Antenna Type: SMD CERAMIC ANTENNA

Antenna Gain: 2.78dBi

The functions of main Components are mentioned as below.

- 1) U7(AC7023D2) acts as Bluetooth ic.
- 2) U6(XB4302A) acts as Li- battery protection ic
- 3) X1 acts as crystal 24MHz