

# Operational Principle

1. The SE69D is a member of the low-cost, high-performance family of intelligent 2.4 GHz RF transceivers with embedded microcontrollers.
2. The SE69D is optimized to provide a single chip solution for Ultra Low Power (ULP) wireless applications. The combination of processing power, memory, low power oscillators, real-time counter and a range of power saving modes provides an ideal platform for implementation of RF protocols.
3. Benefits of using SE69D include tighter protocol timing, security, lower power consumption and improved co-existence performance. For the application layer the SE69D offers a rich set of peripherals including: USB, and so on. ANTENNA, The antenna is typically fed from the end of the monopole section by a plated through-hole via which is in turn connected to the RF output on the 2.4GHz band.

Channel list

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 1       | 2402 MHz  | 21      | 2442 MHz  |
| 2       | 2404 MHz  | 22      | 2444 MHz  |
| 3       | 2406 MHz  | 23      | 2446 MHz  |
| 4       | 2408 MHz  | 24      | 2448 MHz  |
| 5       | 2410 MHz  | 25      | 2450 MHz  |
| 6       | 2412 MHz  | 26      | 2452 MHz  |
| 7       | 2414 MHz  | 27      | 2454 MHz  |
| 8       | 2416 MHz  | 28      | 2456 MHz  |
| 9       | 2418 MHz  | 29      | 2458 MHz  |
| 10      | 2420 MHz  | 30      | 2460 MHz  |
| 11      | 2422 MHz  | 31      | 2462 MHz  |
| 12      | 2424 MHz  | 32      | 2464 MHz  |
| 13      | 2426 MHz  | 33      | 2466 MHz  |
| 14      | 2428 MHz  | 34      | 2468 MHz  |
| 15      | 2430 MHz  | 35      | 2470 MHz  |
| 16      | 2432 MHz  | 36      | 2472 MHz  |
| 17      | 2434 MHz  | 37      | 2474 MHz  |
| 18      | 2436 MHz  | 38      | 2476 MHz  |
| 19      | 2438 MHz  | 39      | 2478 MHz  |
| 20      | 2440 MHz  | 40      | 2480 MHz  |