

ANCHOR AUDIO PORTACOM
PSEUDORANDOM FREQUENCY HOPPING SEQUENCES
8/22/06

The Wireless Portacom uses pseudorandom frequency hopping sequences that are hard-coded into the firmware. Channels use the same set of frequencies but are hopped in different sequences. Frequencies are spaced 1MHz apart, extending from 2416MHz through 2449MHz. As the hopping sequence cycles, every frequency is equally on average, resulting in even usage across the band.

Following is the list of channel hopping sequences by system channel. (in MHz)

1. 2434, 2417, 2431, 2438, 2449, 2422, 2419, 2447, 2443, 2425, 2439, 2418, 2436, 2423, 2432, 2440, 2428, 2448, 2441, 2427, 2445, 2420, 2429, 2433, 2435, 2442, 2421, 2430, 2416, 2437, 2446, 2426, 2424, 2444
2. 2442, 2440, 2418, 2447, 2437, 2422, 2441, 2417, 2425, 2432, 2427, 2446, 2423, 2436, 2435, 2430, 2433, 2444, 2419, 2424, 2431, 2449, 2443, 2448, 2421, 2434, 2420, 2429, 2438, 2416, 2426, 2428, 2439, 2445
3. 2416, 2435, 2420, 2425, 2445, 2419, 2440, 2421, 2417, 2441, 2439, 2447, 2432, 2446, 2427, 2444, 2433, 2426, 2431, 2422, 2436, 2423, 2448, 2442, 2437, 2434, 2438, 2449, 2443, 2424, 2428, 2430, 2429, 2418
4. 2418, 2443, 2440, 2432, 2421, 2431, 2448, 2427, 2433, 2442, 2419, 2435, 2438, 2449, 2425, 2444, 2446, 2416, 2437, 2426, 2445, 2430, 2429, 2428, 2423, 2424, 2420, 2434, 2441, 2447, 2436, 2417, 2422, 2439
5. 2436, 2439, 2417, 2441, 2427, 2437, 2420, 2424, 2449, 2426, 2421, 2446, 2435, 2442, 2438, 2428, 2433, 2423, 2448, 2445, 2425, 2444, 2440, 2429, 2430, 2432, 2431, 2434, 2416, 2419, 2443, 2418, 2422, 2447
6. 2425, 2429, 2427, 2430, 2421, 2443, 2423, 2438, 2437, 2436, 2446, 2428, 2440, 2448, 2426, 2422, 2447, 2416, 2434, 2445, 2420, 2419, 2444, 2417, 2432, 2424, 2441, 2439, 2442, 2433, 2449, 2435, 2431, 2418
7. 2441, 2439, 2446, 2436, 2424, 2438, 2419, 2427, 2426, 2443, 2435, 2437, 2442, 2434, 2417, 2447, 2431, 2433, 2432, 2420, 2418, 2421, 2416, 2445, 2440, 2429, 2430, 2448, 2425, 2423, 2444, 2428, 2422, 2449
8. 2444, 2431, 2420, 2422, 2433, 2428, 2424, 2436, 2438, 2442, 2427, 2448, 2423, 2432, 2425, 2441, 2440, 2418, 2421, 2443, 2449, 2429, 2435, 2434, 2430, 2447, 2437, 2439, 2416, 2445, 2446, 2419, 2417, 2426
9. 2443, 2422, 2429, 2419, 2444, 2448, 2446, 2440, 2424, 2417, 2421, 2438, 2433, 2432, 2426, 2434, 2447, 2430, 2425, 2416, 2427, 2437, 2436, 2423, 2418, 2449, 2428, 2439, 2435, 2431, 2420, 2441, 2445, 2442
10. 2427, 2421, 2417, 2445, 2446, 2440, 2432, 2422, 2436, 2428, 2431, 2443, 2423, 2447, 2439, 2424, 2416, 2435, 2430, 2437, 2444, 2426, 2449, 2434, 2425, 2418, 2429, 2442, 2420, 2438, 2448, 2433, 2419, 2441
11. 2422, 2438, 2426, 2427, 2442, 2417, 2437, 2448, 2436, 2449, 2432, 2440, 2428, 2431, 2446, 2435, 2439, 2424, 2433, 2418, 2441, 2429, 2421, 2423, 2419, 2447, 2430, 2444, 2443, 2420, 2445, 2434, 2425, 2416

12. 2423, 2420, 2447, 2421, 2424, 2438, 2446, 2435, 2448, 2426, 2436, 2431, 2449, 2427, 2442, 2425, 2432, 2417, 2430, 2437, 2419, 2434, 2428, 2444, 2439, 2443, 2429, 2422, 2440, 2416, 2441, 2433, 2445, 2418
13. 2429, 2444, 2417, 2440, 2416, 2446, 2434, 2445, 2418, 2423, 2433, 2437, 2419, 2448, 2438, 2425, 2441, 2430, 2443, 2439, 2427, 2431, 2428, 2442, 2435, 2436, 2426, 2449, 2420, 2424, 2447, 2432, 2421, 2422
14. 2416, 2424, 2444, 2442, 2443, 2438, 2417, 2439, 2448, 2418, 2446, 2420, 2445, 2423, 2434, 2430, 2426, 2436, 2427, 2433, 2419, 2435, 2431, 2437, 2440, 2441, 2432, 2428, 2449, 2422, 2447, 2421, 2425, 2429
15. 2432, 2442, 2427, 2421, 2418, 2449, 2436, 2437, 2428, 2447, 2438, 2446, 2434, 2417, 2416, 2420, 2435, 2423, 2441, 2444, 2431, 2425, 2419, 2439, 2440, 2422, 2448, 2424, 2433, 2429, 2445, 2426, 2443, 2430
16. 2449, 2446, 2437, 2421, 2435, 2418, 2442, 2424, 2436, 2428, 2425, 2447, 2440, 2427, 2434, 2432, 2429, 2431, 2416, 2422, 2445, 2441, 2438, 2430, 2433, 2417, 2439, 2448, 2419, 2423, 2420, 2443, 2426, 2444