

802.11 Wi-Fi Physical Layer and Transmitter Measurements

		802.11b (HR/DSSSS)	802.11a and 802.11g (ERP)	802.11n (HT)	802.11ac (VHT)	Channel # / Center Frequency																																																																																																																																																																																																																																																																		
Channel Allocation	2.4 GHz				<table border="1"> <thead> <tr> <th colspan="9">2.4 GHz</th> </tr> <tr> <th>Primary Channel</th> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th> </tr> <tr> <th>2nd Channel</th> <td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td> </tr> <tr> <th>Center Channel</th> <td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td> </tr> <tr> <th>Center Frequency</th> <td>2422</td><td>2427</td><td>2432</td><td>2437</td><td>2442</td><td>2447</td><td>2452</td><td>2457</td><td>2462</td> </tr> </thead> </table>	2.4 GHz									Primary Channel	1	2	3	4	5	6	7	8	9	2nd Channel	5	6	7	8	9	10	11	12	13	Center Channel	3	4	5	6	7	8	9	10	11	Center Frequency	2422	2427	2432	2437	2442	2447	2452	2457	2462																																																																																																																																																																																																																		
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Packet Information		<p>Bits: Preamble (144 or 72 bits), Header (48 bits), Payload Data (N bits)</p> <p>Mod: DSSS1M (1:11)*, DSSS1M (1:11)* or DSSS2M (2:11)*, DSSS1M (1:11)* or DSSS2M (2:11)*, CCK5.5M (4:8) or CCK11M (8:8)</p> <p>IQ: DBPSK (1:11)*, DBPSK or DQPSK (528 or 264 chips), DBPSK or DQPSK or CCK5.5M or CCK11M (N*K chips)</p> <p>192 usec (Long) or 96 usec (Short) (N*K) / 11* 10e-6 usec (N*K) = (Nbits/Mchips), K = M / N</p>																																																																																																																																																																																																																																																																						
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Based on IEEE802.11-2012 standard.

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