

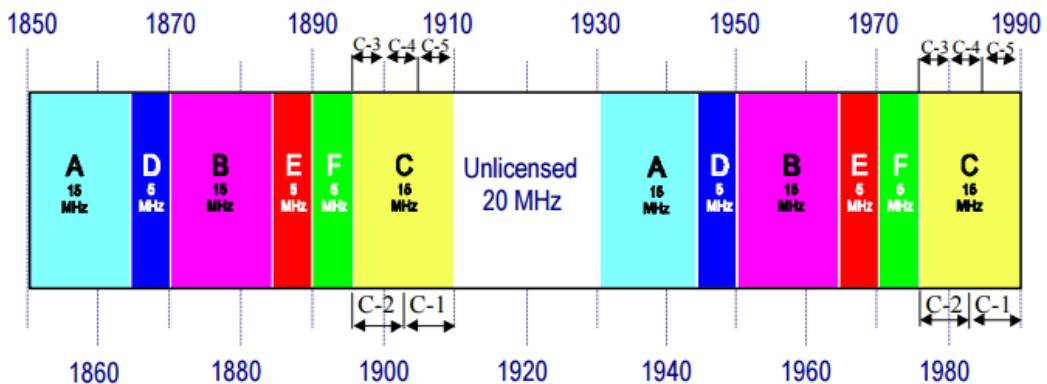


Wireless Spectrum Licenses in the Broadband PCS Band Ideal for Cellular Voice & Data Applications Available Spectrum Varies

The **Broadband Personal Communications Service (PCS) FCC licensed band**, 1.9 GHz (1.85 - 1.99 GHz) originally consisted of 6 channel blocks: A-F, with A, B, & C being 30 MHz channels, while D, E, & F are 10 MHz channels. Continued demand for PCS spectrum from nationwide mobile phone carriers caused the FCC to divide the C band into 15 MHz channels (C1, C2), then 10 MHz channels (C3, C4, C5). Nearly all PCS licenses are held by the four major U.S. cellular carriers and are fully utilized; opportunities to acquire PCS spectrum for consumer or private communications are rare.

The FCC has approved the PCS band for a broad range of uses and the paired channel plan is suitable for many simultaneous voice and broadband data applications. The band is fully LTE compatible with 3GPP standardized E-UTRA bands 2 and 25, which allow for deployments across a variety of channel bandwidths ranging from 1.4 MHz to 20 MHz in Full Division Duplex (FDD) with a duplex spacing of 80 MHz.

The PCS band is shown below:



Maximum base power is based on height above average terrain, with maximum EIRP decreasing with antenna height. Effective wattage of 1000 watts or greater is permitted from masts 500 meters high and shorter. Mobile devices are limited to a maximum 2 watts EIRP and must limit power to the minimum needed.

PCS licenses are most commonly used for consumer cellular, text and mobile data services, but can also be used in a wide variety of private applications including critical infrastructure, public safety and utility communications. In addition, long range asset-tracking systems, such as Oil & Gas production, transportation, and other remote monitoring systems can use PCS spectrum. Networks may employ point-multipoint (tall site) and/or cellular architectures.

PCS Broadband license inventory and availability changes on a regular basis, and parties interested in acquiring or selling/leasing PCS spectrum rights are encouraged to inquire with Select Spectrum periodically.