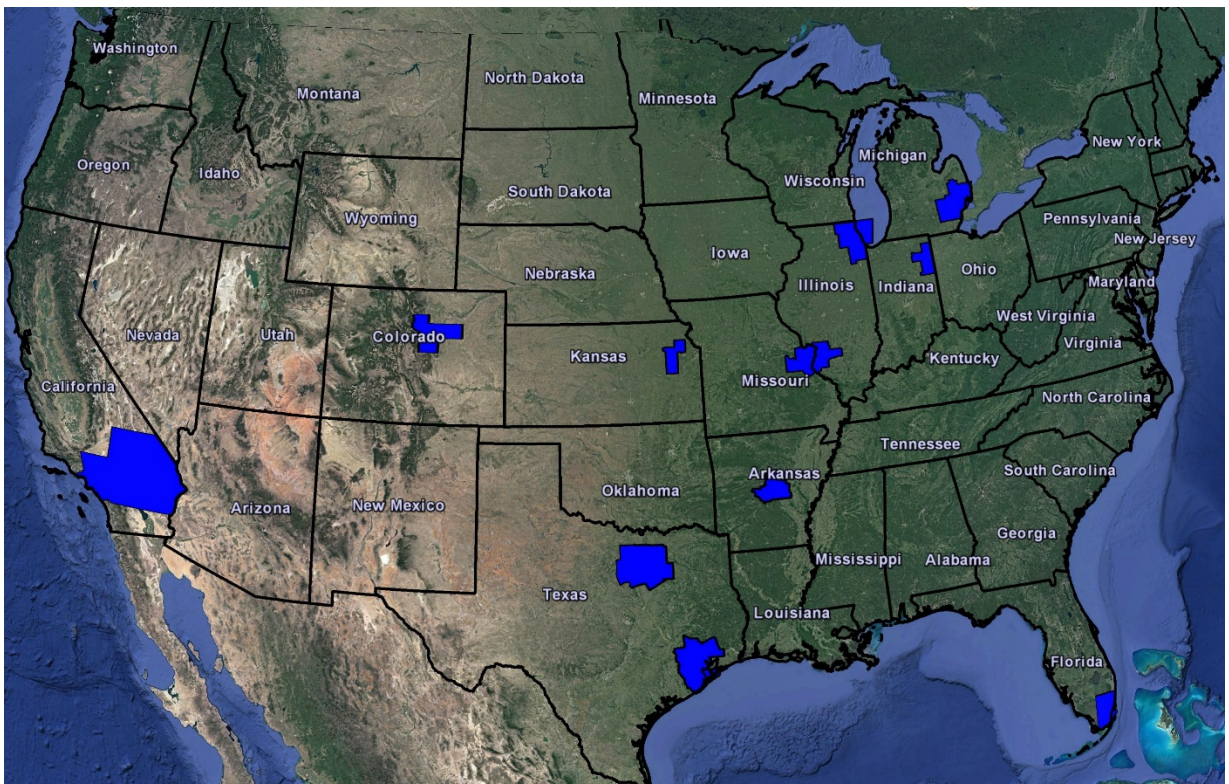


Wireless Spectrum Licenses in the 218-219 MHz Band Ideal for Utility, Critical Infrastructure, IoT, M2M, and Rail Applications Available in Major and Semi-Major U.S. Metropolitan Areas

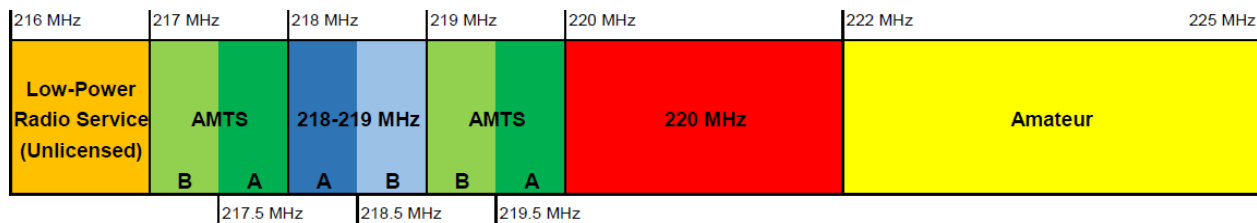
Select Spectrum is offering fourteen **218-219 MHz Service FCC spectrum** licenses across portions of 10 states including California, Illinois, Texas, Colorado, Missouri, Michigan and Florida. Major cities covered include Los Angeles, Chicago, Dallas, Houston & Galveston, Denver, St. Louis, Detroit and Miami, providing coverage for over a population of 56 million. Each license offers 500 kHz bandwidth and provides excellent propagation with support of throughput of 1 Mbps or more per license per site. With a single license, it is possible to deploy sophisticated, wide-bandwidth networks. In the Los Angeles and Dallas markets 1000 kHz of contiguous spectrum is available for purchase across two licenses.

218-219 MHz licenses can support a broad range of applications including broadcast or two-way; mobile or fixed; data, voice or video, providing effective performance for SCADA, land mobile radio and communications, smart grid and IoT, machine to machine “M2M”, UAV, Oil & Gas production/pipelines, Positive Train Control “PTC” and Communications-Based Train Control “CBTC” applications. This makes the spectrum ideal for urban utilities, critical infrastructure networks, oil & gas companies, innovative telecom companies and passenger & freight rail lines.

Available markets in this offering are shown in the map below:



The 218-219 MHz Service band is shown with neighboring service groups below:



The 218-219 MHz spectrum can be used for voice or data in 2-way or broadcast modes, including fixed and mobile services. Time division duplex “TDD” operation (synchronized two-way transmissions on the same frequency) is allowed in the band. FCC part 95 service rules provide for maximum downlink power of 20 Watts ERP and maximum uplink power is 4 Watts ERP, but the FCC has granted waivers to increase both uplink and downlink power by substantial amounts (see FCC Order DA 14-269). Higher power transmissions are appropriate based on base station and remote transmit limits of 1000 and 50 Watts ERP respectively in the neighboring AMTS band. Networks may employ point-to-point, point-multipoint (tall site) and/or cellular architectures.

Each 500 kHz license, may be divided into narrower channel blocks such as 6.25 or 12.5 kHz, or may use any bandwidth up to the full 500 kHz. Licenses may be combined for a fully contiguous 1000 kHz block of bandwidth. The large frequency allocation, excellent propagation and uninterrupted band plan affords great flexibility in network design and use. The FCC has also been supportive of spectrum swaps to expand geographic coverage of licenses at the expense of capacity (see FCC Orders DA 16-906 and DA 17-234). The licenses have met FCC construction requirements and the owners are confident that a sale or lease to a qualified party would be approved by the FCC.

Equipment for this band is made by Meteorcomm <http://meteorcomm.com>, GE MDS www.gedigitalenergy.com, Tait Communications <https://www.taitradio.com>, Full Spectrum www.fullspectrumnet.com, Alstom www.alstomsignalingsolutions.com, 4RF www.4rf.com, ESTeem www.esteem.com, XetaWave www.xetawave.com, Cambium <http://www.cambiumnetworks.com>, and Alligator Communications www.alligatorcom.com. The band is also compatible with the recently-approved IEEE wireless standard – 802.16s “GRIDMAN”. This high reliability standard is intended for use by utilities and other critical infrastructure operators.

Market	2016 POPS	Market	2016 POPS
LA-Long Beach/Anaheim, CA*	17,838,284	Denver-Boulder, CO	3,056,941
Chicago, IL	8,364,162	St. Louis, MO-IL	2,628,282
Dallas-Fort Worth, TX*	7,132,475	Little Rock-North Little Rock, AK	706,408
Houston, TX	6,373,382	Fort Wayne, IN	509,780
Detroit/Ann Arbor, MI	4,662,326	Galveston, TX	329,431
Miami-Fort Lauderdale, FL	4,622,577	Topeka, KS	212,886
Total 2016 POPS			56,436,934
*Both the A and B Blocks are offered in this market across two licenses for a combined 1,000 kHz of available spectrum.			

Each License covers its entire original assignment and may be disaggregated in accordance with FCC rules Individual call sign information is available upon request. Please contact us for additional information regarding these licenses.

Contact: Robert Finch, rfinch@selectspectrum.com, (571) 287- 8720
 Visit our website at <http://selectspectrum.com> to learn more