



## Wireless Spectrum Licenses in the 600 MHz Band Ideal for Private LTE, IoT, Smart City, and Broadband Applications Available Today for Purchase, Lease, and Other Arrangements

The **600 MHz FCC licensed band** was made available by the FCC via the Forward Auction (1002) in 2017, which sought to re-purpose legacy TV stations operating on channels located between 617-698 MHz for LTE and applications requiring Broadband capacity. The band was auctioned in 5 MHz paired blocks (10 MHz total), consisting of 7 blocks in total. 600 MHz spectrum is 3GPP standardized (LTE Band 71) and allows for channel sizes of 5, 10, 15, or 20 MHz.

The 600 MHz Band is shown below:

617 MHz	<u>Downlink</u>					652 MHz
A	B	C	D	E	F	G

  

663 MHz	<u>Uplink</u>					698 MHz
A	B	C	D	E	F	G

The band is governed by flexible Title 47 Part 27 rules that allow for exceptional cellular standard power limits of up to 1000 Watts ERP in Urban areas and 2000 Watts ERP in Rural areas; with antenna heights of 305m or greater (with lowered power) and median field strengths along the border of the service areas not to exceed 40 dB $\mu$ V/m. Uplink restrictions for portable, hand-held, fixed, and other mobile stations are limited to 3 Watts ERP.

These relatively high-power limits, in concert with excellent propagation characteristics allowing for superior building penetration & excellent range to propagate through dense forests and over mountains, make the 600 MHz band ideal for a wide range of applications other than mobile LTE networks utilized by major carriers.

**Critical Infrastructure organizations and industries, such as Electric Utilities, Oil/Gas Companies, Rail Lines, Smart City Initiatives, and others may take advantage of the unencumbered and licensed spectrum to support internal communications over Private LTE networks for Industrial IoT, Video Surveillance, UAVs, Asset Monitoring/Tracking, and more.**

Regional/local telecommunications providers may utilize the spectrum for mobile/fixed wireless LTE 4G/5G deployments, while innovative companies should find the spectrum to be ideal for new business opportunities that can leverage LTE compatible spectrum that is typically occupied by large national carriers, generally unavailable on the secondary market, price prohibitive, or only available via lease on rare occurrences.

**Availability is limited, varying by geographic location. Please inquire today for more information - Select Spectrum will provide a Spectrum Information Memorandum (SIM) upon request, detailing the process timing/procedures, markets available, etc.**

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