



Defined as Terrestrial Trunked Radio, the TETRA market place supports first responder and emergency radio requirements world wide. The primary frequency designations are between 380 and 520 MHz, although there is also personal mobile radio (PMR) activity at lower frequencies. The actual communication mode can take on several forms, as users can communicate on a direct basis (point-to-point) or over a larger network. One of the primary advantages of the TETRA architecture are the longer range of the lower frequencies which permit high levels of geographic coverage with a smaller number of transmitters, thus reducing infrastructure costs. From a functional standpoint, TETRA systems offer reduced call set-up time and the system protocols facilitate

successful communication even during over-load situations. TETRA infrastructure is typically separate from (but connected to) the existing mobile wireless infrastructure, resulting in reduced cost (or no call charges) for the system owner and unlike most cellular technologies, the TETRA networks typically provide a number of fall-back modes to maintain communications in critical situations.

Microlab supports TETRA base station requirements with a full suite of passive RF components. Our high-power combiners, directional couplers, splitters and diplexers enable system architects to design systems that maximize performance when the stakes are high and people's lives are on the line... That's performance that you can really count on.