

## ABSTRACT

The four-square array antenna is the new technical trend in mobile communication. It uses a phased array antenna, consisting of four monopole antennas called four-square array, instead of only one monopole antenna. This kind of antenna has more gain and more directivity than one monopole antenna. The four-square array antenna has been considered for using in a mobile communication working at frequencies 900 MHz. It uses both feed method and L network to create main lobe.

The radiation pattern of four-square array antenna is larger than that of one monopole antenna in approximately two times. Not only has the four-square array antenna beam more gain available in one direction, it can have the same performance and less power consumption as well.

