

*For reference
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ABSTRACT

SUPERGAIN ARRAY ANTENNA SYSTEM AND METHOD FOR CONTROLLING SUPERGAIN ARRAY ANTENNA

To provide a super directional gain in a multi-element array antenna. An array antenna comprising a plurality of antenna elements A-1 - A-4 spaced at intervals (equal to or less than a quarter of a wavelength) that provides a supergain is used. A weight generator circuit generates weight data in accordance with phase difference and amplitude difference among the antenna elements A-1 - A-4 and directivity data of each of the antenna elements A-1 - A-4. The generated weight data is used to weight each of the antenna elements A-1 - A-4.

(Figure 1)