

ARS6-B

Exhibit 8 - Antenna Information

General Description of Antenna:

Principle of Antenna implementation

The antenna is designed to operate in the 76–77 GHz and 77–81 GHz frequency bands, supporting the corresponding operating modes.

It is an integrated one component waveguide antenna comprising four transmit (Tx) and four receive (Rx) antenna elements, distributed across the antenna aperture.

All four Tx antennas transmit simultaneously, generating a constant electromagnetic field. The Rx channels process the received signals to determine the angular direction of detected objects. Angular separation is achieved by applying signal coding across the transmit channels.

The antenna's main beam is directed perpendicular to the center of the antenna surface.