Airborne communication base station inverter

Is a ground BS antenna suitable for the cmwave frequency range?
The cmWave frequency range,defined from 7 GHz to 15 GHz,potentially strikes a balance capacity and propagation losses,being a promising frequency range for 6G . The ground BS antenna design is clearly central to address-ing these technical challenges. To this end,this paper proposes novel ground BS antenna design for the cmWave range.

Can antennas be used for direct air-to-ground communications?
This paper proposes an antenna solutionfor direct air-to-ground (ATG) communications,particularly focusing on the challenges and potential of the digital airspace vision. The intra- and inter-cell interference caused by sidelobes of ground base station (BS) antennas and the bandwidth constraints at sub-6 GHz bands are important limitations.

Do BS antennas cause inter-cell interference at sub-6 GHz bands?
The intra- and inter-cell interference caused by sidelobes of ground base station (BS) antennas and the bandwidth constraints at sub-6 GHz bands are important limitations. The paper introduces a ground BS antenna design for the 5.9-8.5 GHz band.

What is a ground BS antenna?
The paper introduces a ground BS antenna design for the 5.9-8.5 GHz band. The main contributions include wide-band, high-isolation antenna array concept for the ground BS antenna, along with an analysis of how the antenna array dimension affects the signal-to-noise-and-interference ratio and throughput in ATG systems.

What are L3Harris manned and unmanned airborne radios?
L3Harris manned and unmanned airborne radios take battlefield communications to new heights. These SWaP-optimized solutions leverage the field-proven,hardware platform of the RF-7850M family of handheld,base station and vehicular systems to extend battlespace connectivity to the air.

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