

Title (en)  
PHASED-ARRAY ANTENNA AND ANTENNA MODULE

Title (de)  
PHASENGESTEUERTE GRUPPENANTENNE UND ANTENNENMODUL

Title (fr)  
ANTENNE RÉSEAU À COMMANDE DE PHASE ET MODULE D'ANTENNE

Publication  
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Application  
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Abstract (en)  
The present disclosure, which relates to the field of antenna technology, provides a phased array antenna and an antenna module. The phased array antenna comprises an antenna array, a control system, a power supply system, a feed system and a transceiver module, the antenna array, the control system, the power supply system, the feed system and the transceiver module all being integrated on a same printed circuit board and arranged in layers, the antenna array and the control system being connected via a metal ground, the power supply system and the feed system being also connected via a metal ground, wherein the feed system is connected to the transceiver module, wherein the antenna array, the control system and the power supply system each are provided with a metallic hole penetrating to the transceiver module, the metallic hole being arranged at a distance from the metal ground, and wherein the antenna array, the control system and the power supply system each are connected to the transceiver module through the metallic hole. The phased array antenna and the antenna module provided in the present disclosure have the advantages of higher integration, smaller size, and lower cost.

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