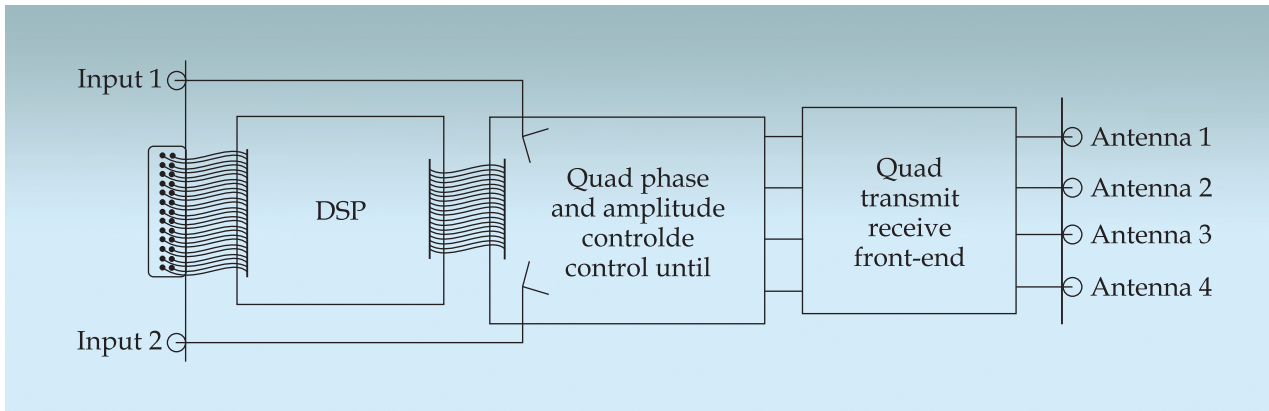


QUAD X-BAND TRANSMIT RECEIVE MODULE



Block-diagram of module

Areas of Application

The transmit receive module is to be used in antenna phased arrays; enables to develop both 1D and 2D arrays

Specification

Operating frequency range, GHz	9–10
Peak input power, W	2
Receiver noise factor, dB	3
Phase control range and resolution	0°–360°; 6 bit; 5.625°
Attenuation range and resolution	24 dB; 7 bit; 0.25 dB
Supply voltage, V	+28; +6; -6



Module appearance

Stage of Development. Suggestions for Commercialization

IRL8, TRL7
Manufacture, delivery, warranty service, and staff training, upon request

IPR Protection

IPR1

Advantages

Embedded DSP and FPGA available for user programming; built-in circuits for safe module operation; separate programmable control input and possibility to pre-set several user-defined phase and amplitude profiles enable fast beam scanning; array dimension is scalable by adding modules without reconfiguration of the control circuits; ITAR free design; use of integrated GaN solid power amplifiers; the module enables fully unmatched operation; half-duplex RS-485 interface for control and monitoring

Contact Information

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