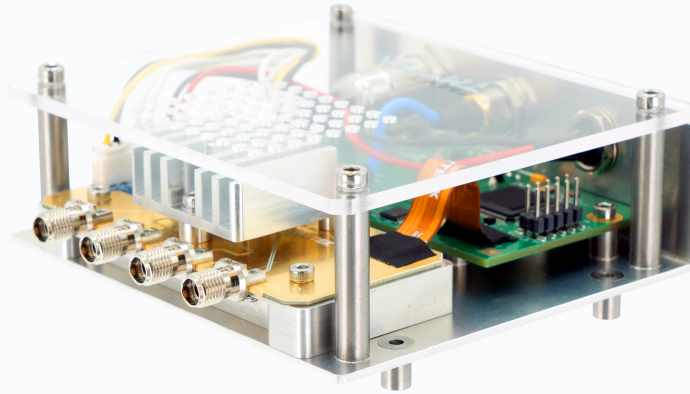


Beamforming Board up to 39 GHz



TECHNICAL SPECIFICATIONS

- **Frequency Bands**
28 GHz and 39 GHz
- **Architecture**
Four independent RF channels
- **Standards Compliance**
5G NR FR2 (millimeter-wave frequency range 2)
- **Control Capabilities**
Integrated phase and amplitude control across antenna elements
- **Design**
Modular platform enabling flexible system configurations

APPLICATIONS

5G/B5G Development:
Prototyping and validation of beamforming algorithms for fifth-generation and beyond-fifth-generation wireless systems

Educational Laboratories:
Teaching mmWave propagation, antenna arrays, and spatial signal processing

SATCOM Research: Exploration of satellite communication beamforming techniques at millimeter-wave frequencies

Antenna Characterization:
Measurement and optimization of phased array performance, beam patterns, and gain profiles

Defense & Aerospace: Radar and sensing systems requiring advanced beam steering capabilities