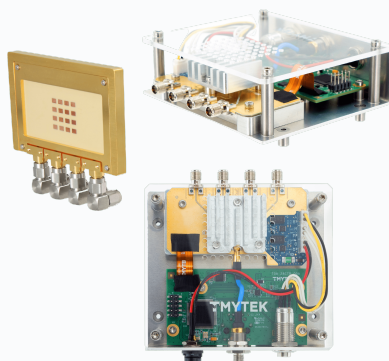


BBoard 5G Beamformer Developer Kit



TECHNICAL SPECIFICATIONS

- **5G FR2 Beamformer BBoard** – 8-channel active phased array with digital phase control
- **Phase Resolution**
5.625° per step for precise beam steering
- **Array Antennas**
5G FR2 test array and 28 GHz reference antennas
- **Passive Components**
25–31 GHz combiner/splitter, RF cables and matching networks
- **Frequency Range**
26.5 GHz – 29.5 GHz with tunable LO support
- **Integrated Components**
Phase Locked Oscillator, Power Detector (0.1–40 GHz), HPA and LNA
- **Software Control**
USB-based interface with Python API and real-time beam visualization

APPLICATIONS

5G mmWave beamforming test and measurement and validation

Phased array antenna design and optimization

ADAS radar systems and secure vehicle communication

Microwave technology research and engineering education

Rapid proof-of-concept validation for 5G/6G systems