ТЕК

mmWave Joint Communication and Sensing (JCAS/ISAC) Testbed

What can you do

- Communication and sensing practice
- 5G channel modeling
- Distance and angle analysis for localization and tracking
- CW/FMCW/Pulsed Doppler radar* * Refer to CW/Pulsed radar testbed

Who need this testbed

- Academic and research institutions
- Communication researcher
- Radar/sensing researcher



Hardware: mmW-Coverage Solution

- TMYTEK UD Box 5G: Frequency up/down converter
- TMYTEK BBox: **Beamformer** (n257, n258, n260, n261)









 SPI control cable: (NI X410 ↔ BBox)





Software:

- TMYTEK UD Box/BBox Control GUI
- TMYTEK UD Box/BBox Control API: Python, LabView, C++, C#, MATLAB
- GNU radio, LabVIEW, MATLAB/Simulink compatible
- UHD customized for BBox beam control

