



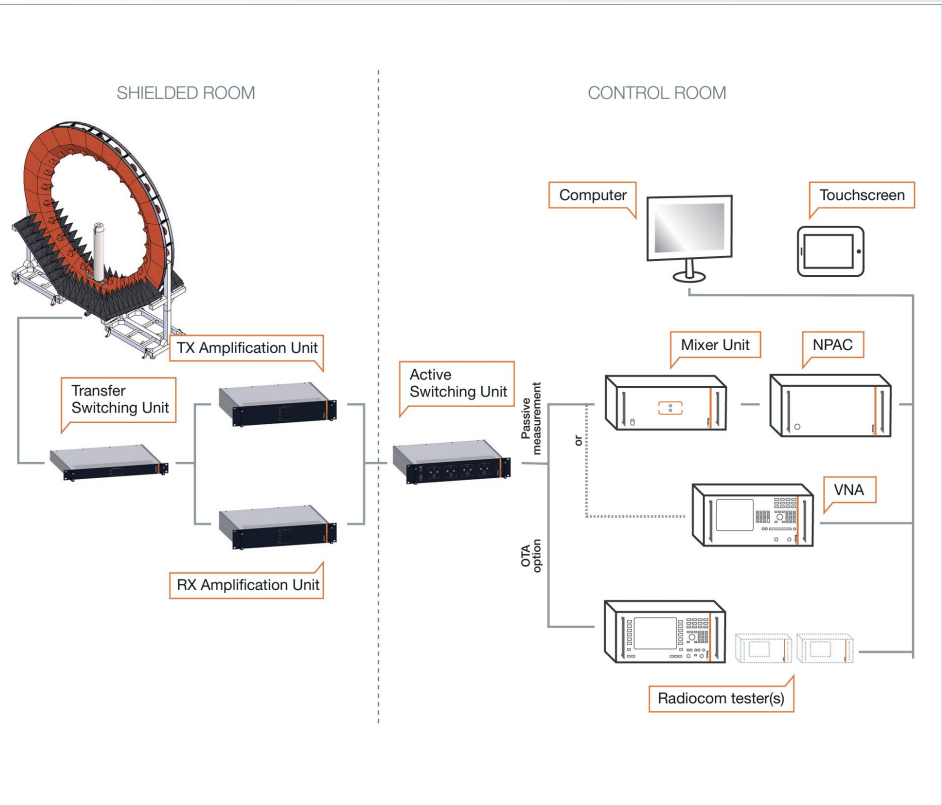
UX7-SP Antenna Datasheet



- AUT Environment
 - Instrument Information
 - Test Method
- Antenna Performance
 - 2G Antenna
 - 5G Antenna
 - BT Antenna



AUT Environment

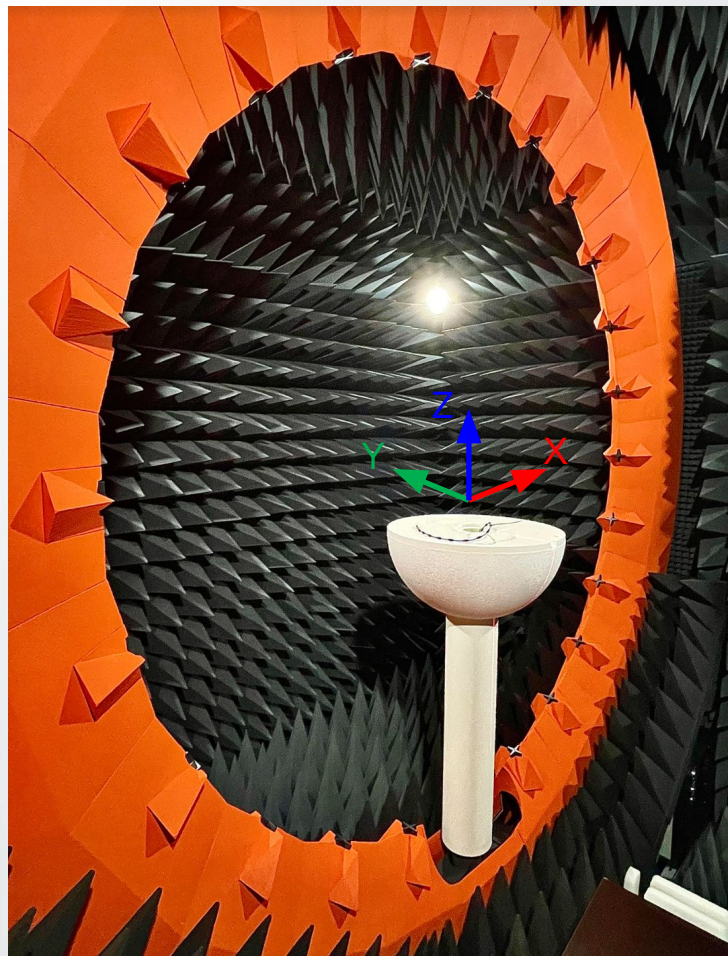


Calibration Record

- Full system calibration, including each instrument, will proceed once per year.
- Regular calibration, including efficiency/peak gain consistency check, will proceed with bi-monthly.

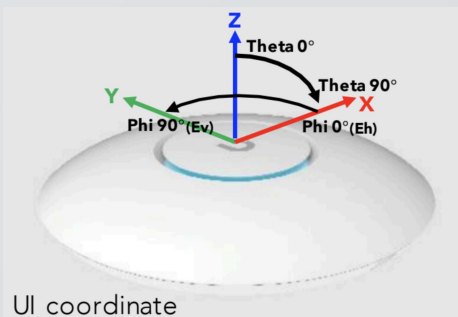
Instrument List	Model	Calibration Date	Calibration Due Date
Transfer Switching	MVG	2024/11/13	2025/11/12
TX Amplification	MVG	2024/11/13	2025/11/12
RX Amplification	MVG	2024/11/13	2025/11/12
Active Switching	MVG	2024/11/13	2025/11/12
Network Analyzer	R&S ZNB	2024/11/13	2025/11/12
Radiocom Tester	Anritsu MT8821	2024/11/13	2025/11/12
Full System	SG24-Standard	2024/11/13	2025/11/12

Test Method



Measurement Standard

- To fix device on the turntable, and laser positioning the height level in the center of the probe.
- Align the chamber coordinate and UI coordinate.
- Sampling the antenna pattern according to Phi increment 5° / Theta increment 5° .
- Finished 3D data collection along with Theta- $175^\circ \sim \text{Theta}175^\circ$ and Phi $0^\circ \sim \text{Phi}180^\circ$
- Frequency resolution setup depends on the different bands.



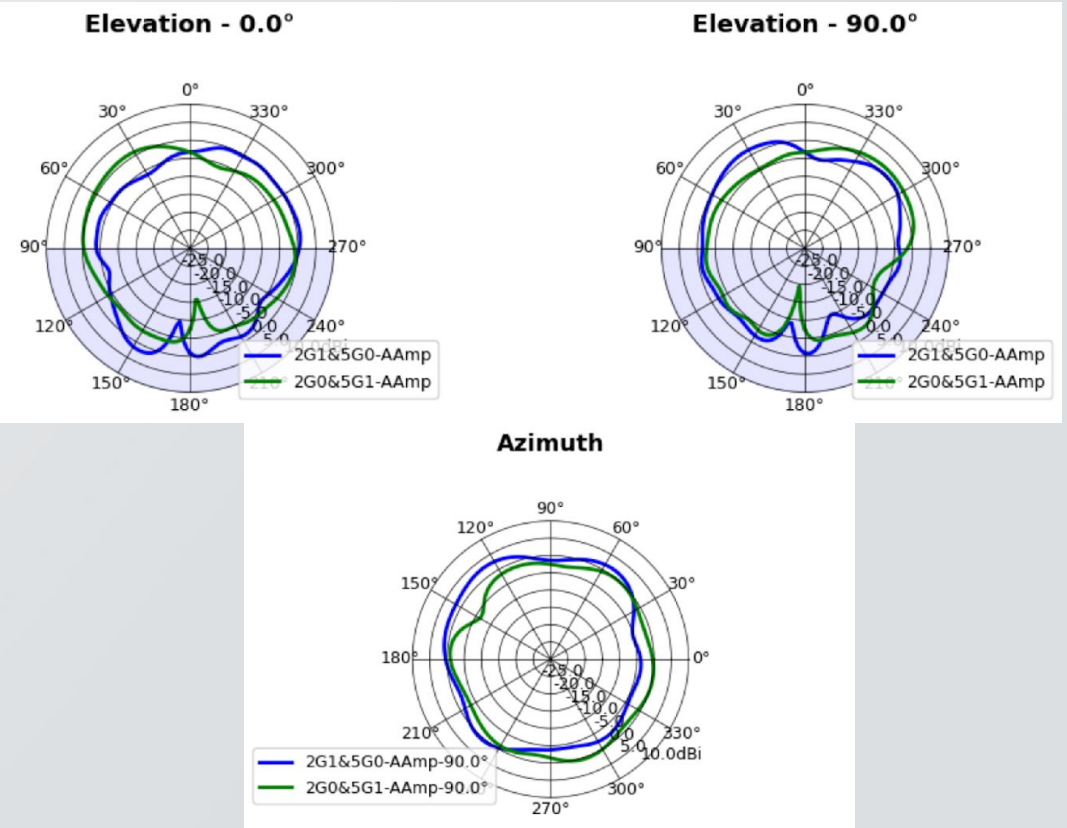


Antenna Performance



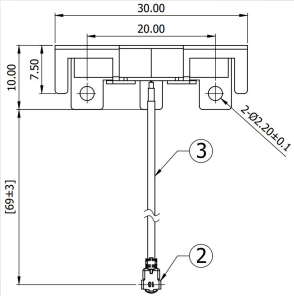
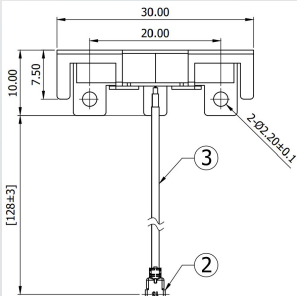
[UX7-SP] 2G Antenna Performance

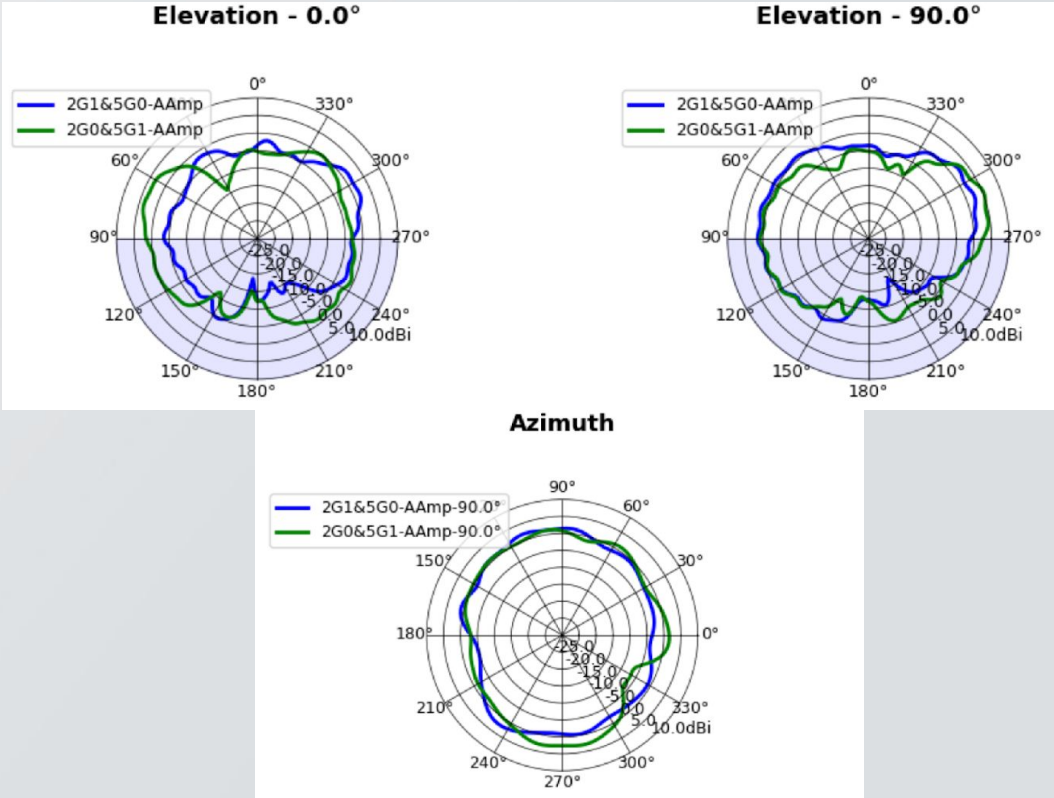
	WIFI 2G	
Working frequency	2400-2500 MHz	
Antenna type	PIFA	
Gain	4.0dBi	
Model	117-06219	117-06220
Drawing		



[UX7-SP] 5G Antenna Performance



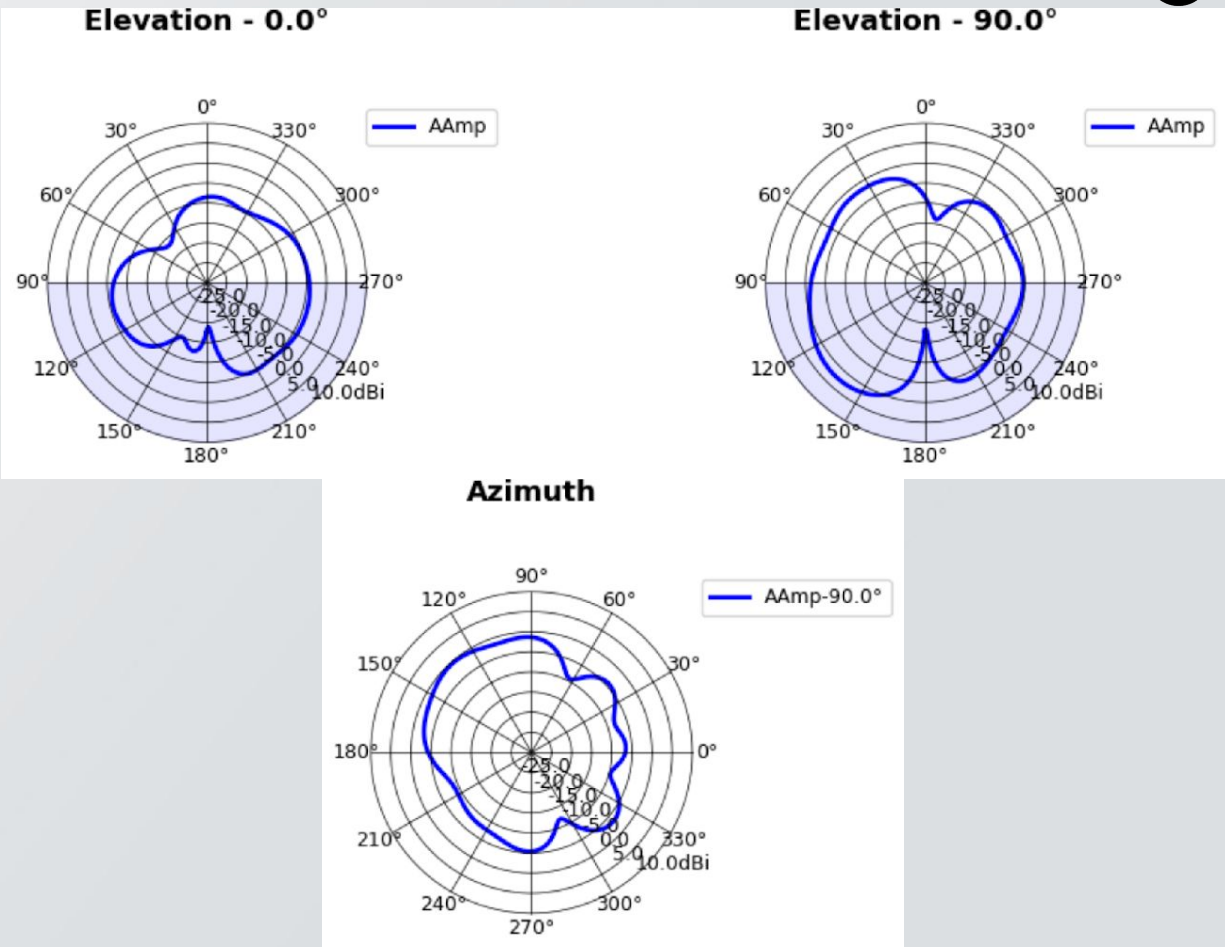
	WIFI 5G	
Working frequency	5150-5850 MHz	
Antenna type	PIFA	
Gain	7.0dBi	
Model	117-06219	117-06220
Drawing		



[UX7-SP] 5G Antenna Performance



	BT
Working frequency	2400-2480 MHz
Antenna type	PIFA
Gain	0dBi
Model	117-03736
Drawing	





Manufacturer: Ubiquiti Inc.
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