



U7-Industrial Antenna Datasheet

A handwritten signature in black ink, appearing to read 'H Chen', written over a thin horizontal line.

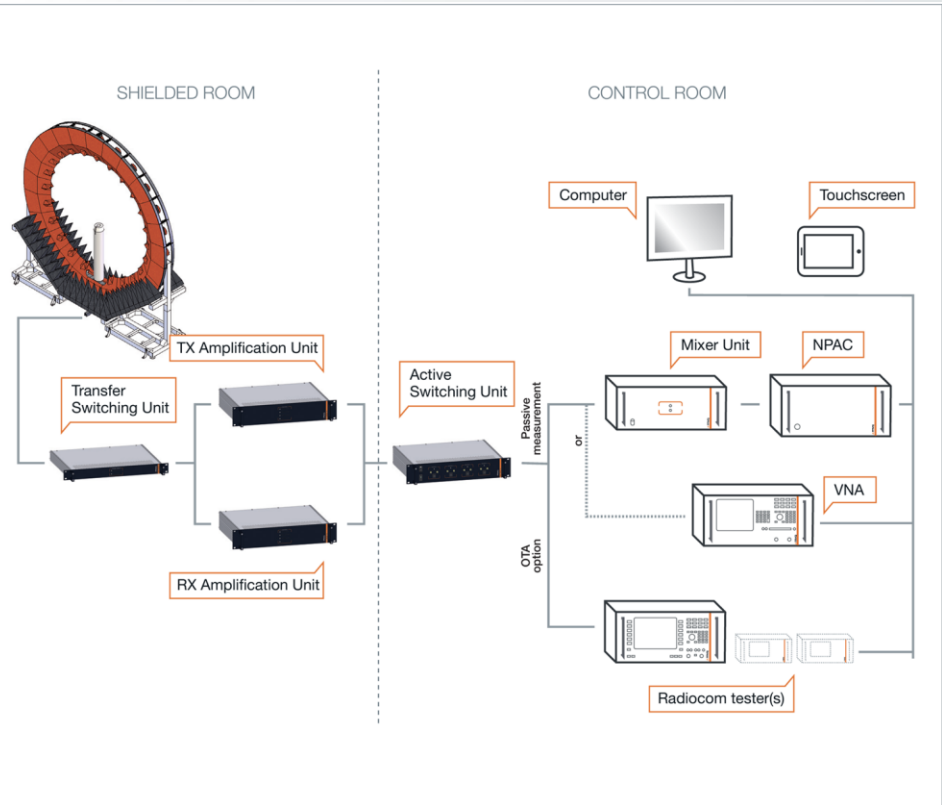
Authorized by: Hans Chen



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

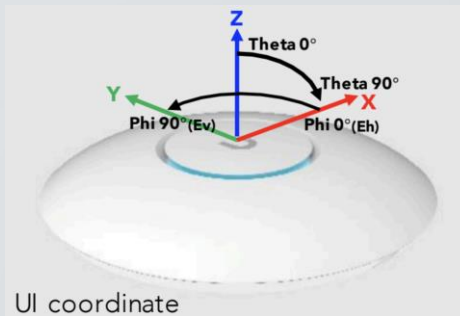
Instrument List	Manufacturer	Calibration Date	Calibration Due Date
Transfer Switching	MVG	2025/11/13	2026/11/12
TX Amplification	MVG	2025/11/13	2026/11/12
RX Amplification	MVG	2025/11/13	2026/11/12
Active Switching	MVG	2025/11/13	2026/11/12
Network Analyzer	R&S ZNB	2025/11/13	2026/11/12
Radiocom Tester	Anritsu MT8821	2025/11/13	2026/11/12
Full System	SG24-Standard	2025/11/13	2026/11/12



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.

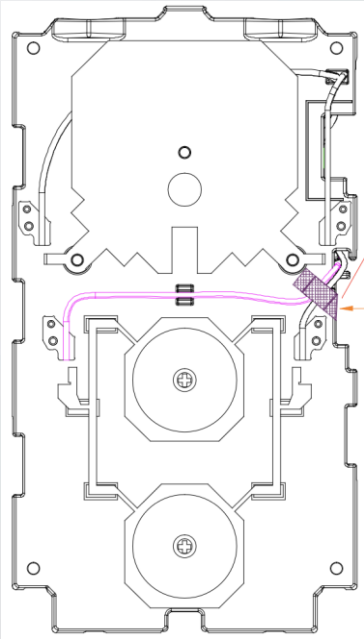


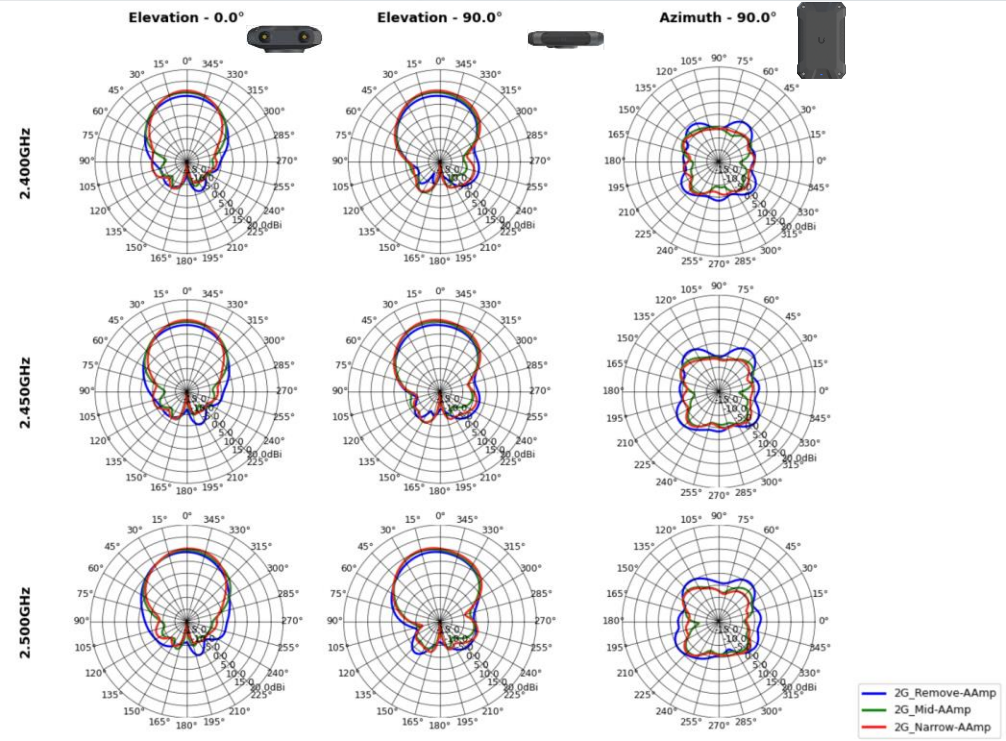


Antenna Performance

[U7-Industrial-AP] WIFI 2G Antenna Performance

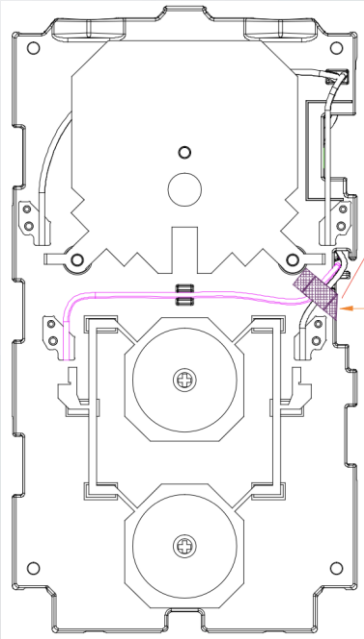


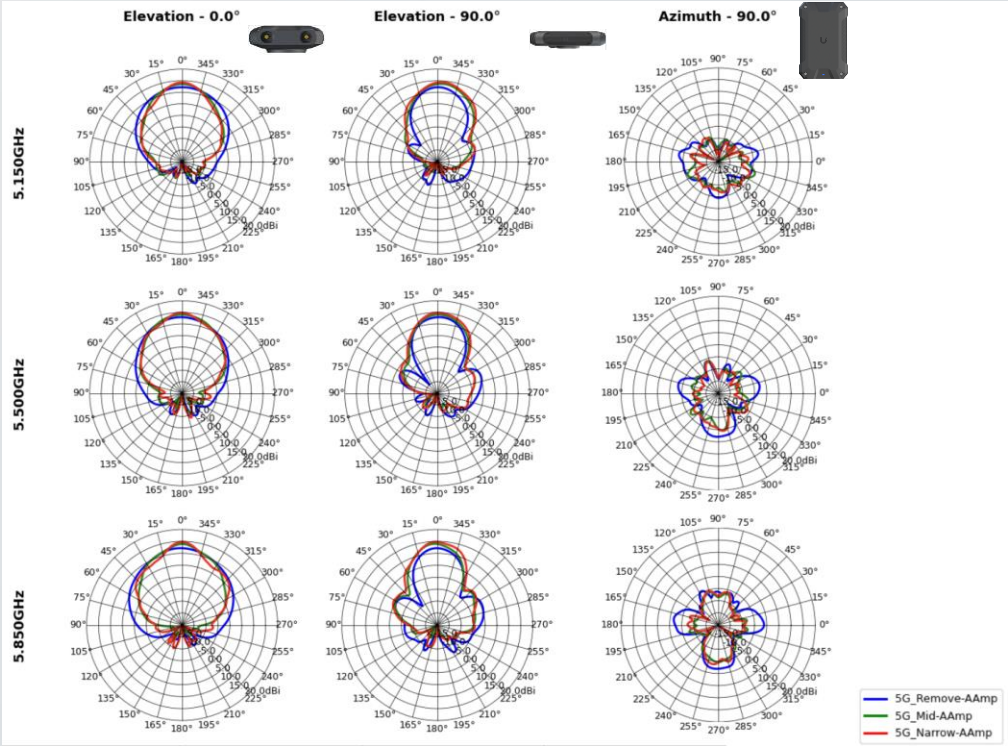
	WIFI 2G
Working frequency	2400-2500 MHz
Antenna type	Patch
Gain	8.0 / 9.0 / 10.0dBi
Model	117-06528
Drawing	



[U7-Industrial-AP] WIFI 5G Antenna Performance

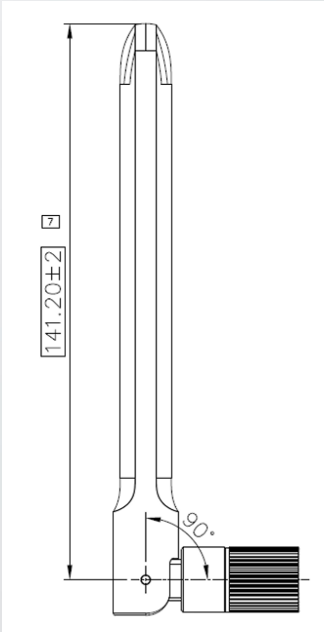


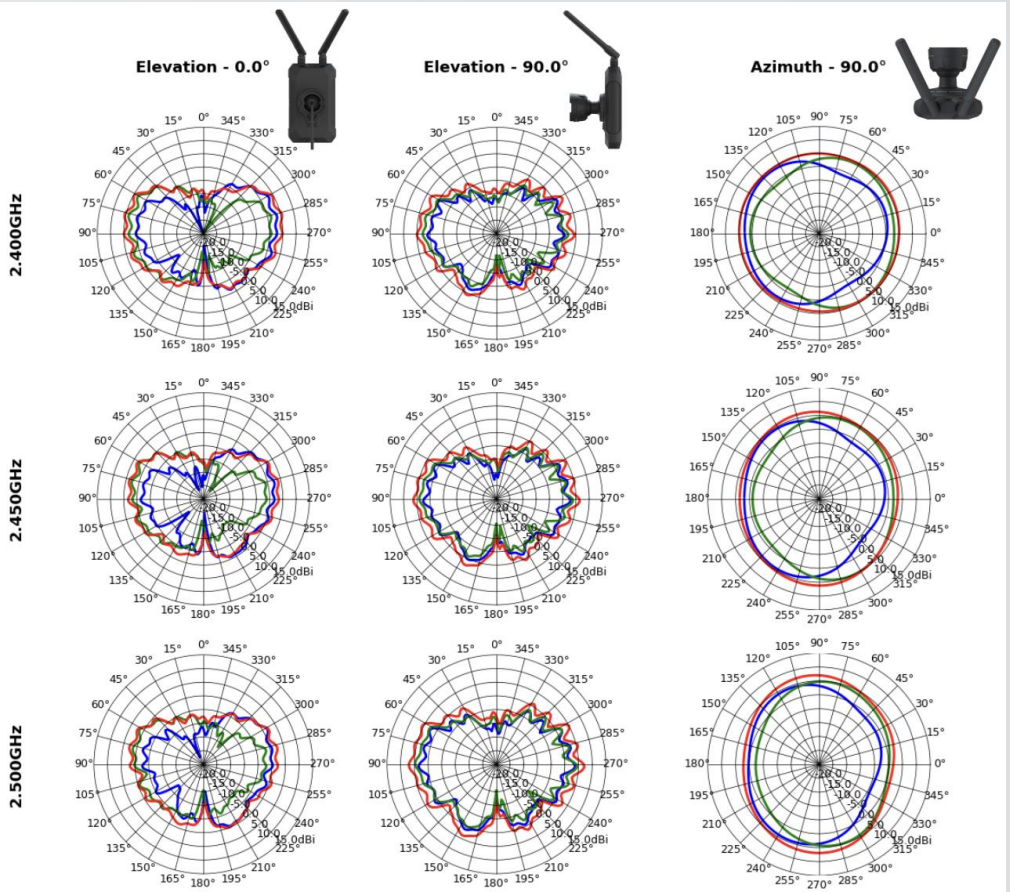
	WIFI 5G
Working frequency	5150-5850 MHz
Antenna type	Patch
Gain	10.0 / 11.0 / 12.0dBi
Model	117-06528
Drawing	



[U7-Industrial-AP] External WIFI 2G Antenna Performance

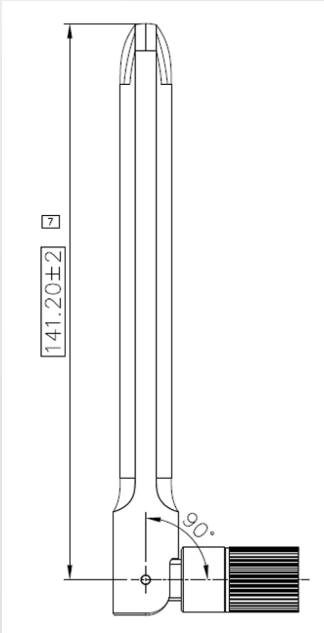


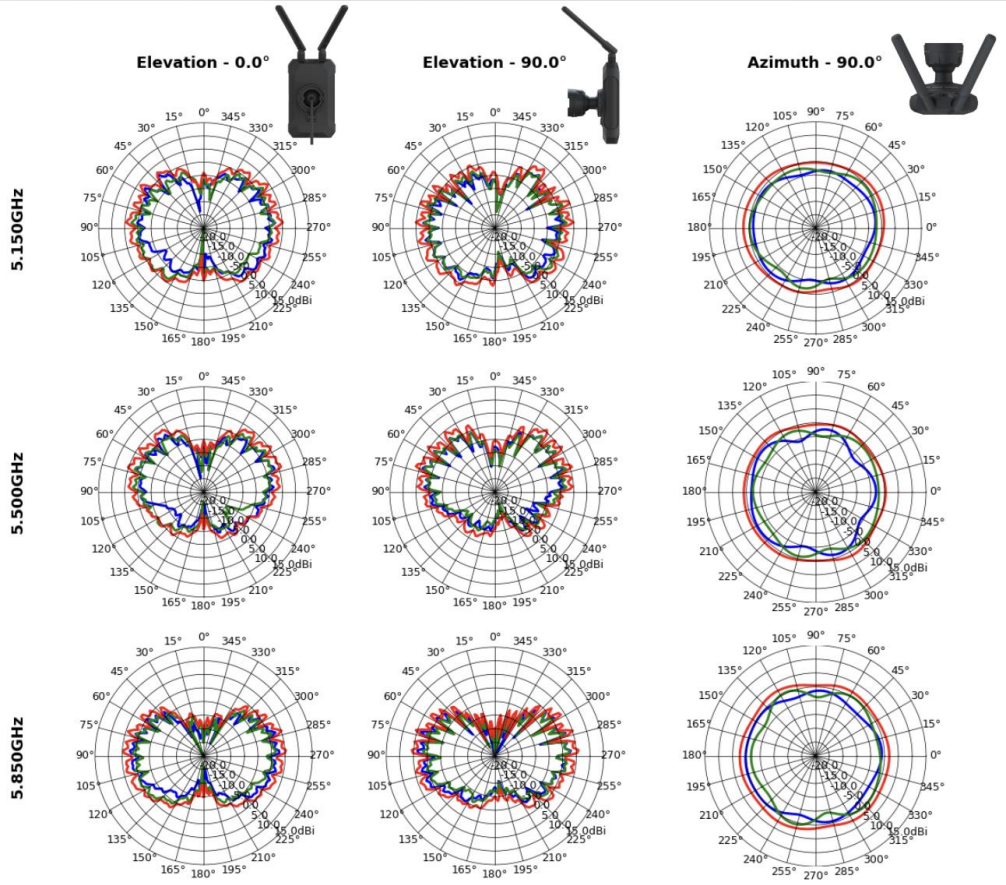
	WIFI 2G
Working frequency	2400-2500 MHz
Antenna type	Dipole
Gain	5.0 dBi
Model	117-06408
Drawing	



[U7-Industrial-AP] External WIFI 5G Antenna Performance



	WIFI 5G
Working frequency	5150-5850 MHz
Antenna type	Dipole
Gain	6.0 dBi
Model	117-06408
Drawing	





Manufacturer: Ubiquiti Inc.

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