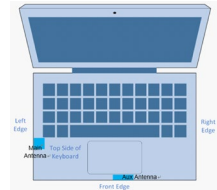


Mechanical Information

Antenna Location for SAR evaluation

Include a dimensioned photo(s) or dimensioned drawing(s) showing the distance (mm) between the transmit antennas and the user. For notebook/laptop hosts show laptop position (example below). For tablet hosts show all orientations including landscape, primary & secondary portrait, primary & secondary landscape positions. Include a description of any proximity sensors or power throttling implementations that limit or exclude use of any host orientation.

Notebook - Antenna on the keyboard section



Tablet mode



	PN	Length	Dimensions	Impedance	Connector Type
Main	SY113L00-001	45mm	1.13	50(ohm)	I-pex NGFF 20965-001R-13.
Aux	SY113L00-016	198mm	1.13	50(ohm)	I-pex NGFF 20965-001R-13.

SAR Separation Distance		
Measuring Surface	Antenna	Distance (mm)
Top Side of KB	Main/Ant.2	3.5
	Aux/Ant.1	3.1
Right Edge	Main/Ant.2	288.0
	Aux/Ant.1	133.3
Left Edge	Main/Ant.2	2.0
	Aux/Ant.1	131.7
Bottom Side	Main/Ant.2	6.5
	Aux/Ant.1	6.4
Front Edge	Main/Ant.2	88.5
	Aux/Ant.1	3.5

SAR Separation Distance - Tablet		
Measuring Surface	Antenna	Distance (mm)
Front Side	Main/Ant.2	14.1
	Aux/Ant.1	14.8
Rear Side	Main/Ant.2	3.80
	Aux/Ant.1	3.10
Top Side	Main/Ant.2	88.50
	Aux/Ant.1	6.5
Bottom Side	Main/Ant.2	108.50
	Aux/Ant.1	204.89

Antenna Drawing and Photo

Main/Ant.2 Drawing

Aux/Ant.1 Drawing

Main/Ant.2 Front

Main/Ant.2 Back

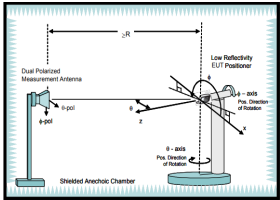
Aux/Ant.1 Front

Aux/Ant.1 Back

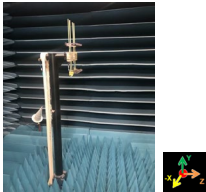
Measurement Method and Test System Description

Include a dimensioned photo(s) or dimensioned drawing(s) of Main and Aux antenna placements (measurements are not required for receive-only antenna). Any antenna that transmits must show dimensions to bottom of laptop. Provide a description of the materials that are used for supporting or surrounding transmit antennas, for example, non-conductive plastics vs. conductive coated plastic or metallic materials.

The testing of antenna gain should be made at a CTA qualified lab with an RF anechoic chamber with at least 3-meter separation from the receive antenna to the antenna under test. The antenna gain report from unqualified lab can't be referenced a passing. Besides, all test equipment including horn antennas, adapters, cables, network analyzers, and receivers shall be calibrated per manufacturer's minimum calibration requirements.



Photographs



Antenna Manufacturer and Test location

Company name: SPEEDWIRE

Address: No. 138, Hi-tech District East-river, Huizhou, Guangdong, ChinaSPEEDWIRE

Test Personnel

Name(Full name): Kevin Zhang

E-mail: kevin_zhang@speed-hz.com

Tel/Mobile: +86-3-3253361 ext 227

Testing date: 2025/2/7

Test Equipment List

ID	Model Name	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
Anechoic Chmb	AMS8500	ETS-Lindgren		20-Nov-24	19-Nov-26
Turn Table	2117-7200	ETS-Lindgren	SN00231447	20-Nov-24	19-Nov-26
Switch & Position	EMCenter	ETS-Lindgren	SN00242606	20-Nov-24	19-Nov-26
Measurement SV	EMQuest V1.15 build 27347	ETS-Lindgren	SN1802	20-Nov-24	19-Nov-26
Horn antenna	3164-10	ETS-Lindgren	SN00246202	20-Nov-24	19-Nov-26
Vector Network /	E5071C	Keysight	PN5188-4462	20-Nov-24	19-Nov-26
Cable 7.5m 400M	SS402	WOKEN	30100A1FSA1XX0	20-Nov-24	19-Nov-26
Cable 7.5m 400M	SS402	WOKEN	30100A1FSA1XX0	20-Nov-24	19-Nov-26
Cable 14m 400M	SS402	WOKEN	30100A1FSA1XX0	20-Nov-24	19-Nov-26
Temp & Humidity	830	PROVA	SN84972	20-Nov-24	19-Nov-26