

ANTENNA INFORMATION

OEM	Dell
ODM	Wistron
Platform model name	P129F
Intel platform (ex: Yes, No or NA)	Yes
Platform type (ex: regular NB, convertible PC, AIO...etc)	Regular NB
SAR minimum separation (mm)	3.9mm

Antenna manufacturer	Changshu HongBo Telecommunication Technology Co., Ltd.
Address	No. 8, Liuzhou Road, Lushan Industrial Park, Xinxing Development Zone, Changshu City, Jiangsu Province, China
Antenna Part number	Antenna P/N: Main: 330-24049 Aux: 330-24049 Wistron P/N: Main: 025.902AB.0001 Aux: 025.902AB.0001 DPN: Main: 38YX4 Aux: 38YX4
Antenna type (ex: PIFA, Dipole...etc)	PIFA

Antenna Peak gain w/ cable loss (dBi)*										
	2.4GHz 2400-2483.5 MHz	5.2GHz 5150-5250MHz	5.3GHz 5250-5350MHz	5.6GHz 5470-5725MHz	5.8GHz 5725-5850MHz	5.9GHz 5850-5895MHz	6.2GHz 5925-6425MHz	6.5GHz 6425-6525MHz	6.7GHz 6525-6875MHz	7.0 GHz 6875-7125MHz
Main	1.40	-1.44	-1.80	4.03	4.03	3.05	3.95	2.29	2.66	2.81
Aux	1.73	0.66	0.93	3.47	3.47	2.8	3.18	0.69	4.02	4.02

Cable Assembly Part Number and Information					
	Cable PN	Cable length(cm)	Cable diameter(mm)	Impedance(ohm)	Connector type
Main	SY113L/50-118	11.7	1.13 SLLS	-0.05	IPEX(20565-001R-13)
Aux	SY113L/50-118	17.3	1.13 SLLS	-0.08	IPEX(20565-001R-13)

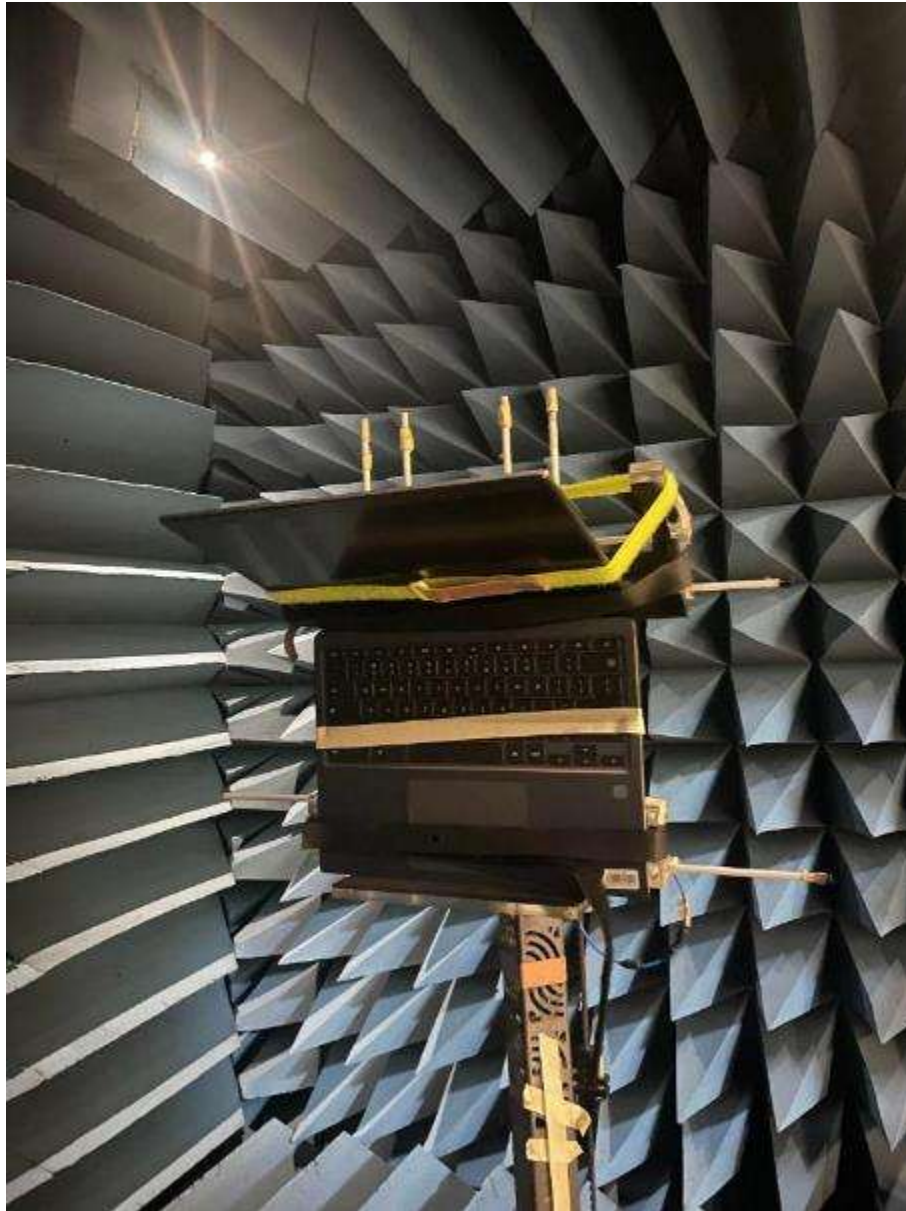
* 3D Antenna Peak Gain required being test in system basis.

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Annex A. Photographs

A.1 Setup Photo



A.2 Test sample

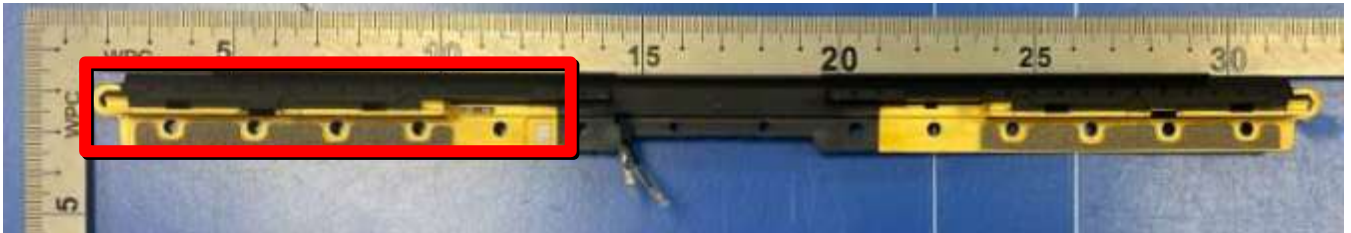
Main Antenna

Antenna Drawing



Antenna Photo

Front



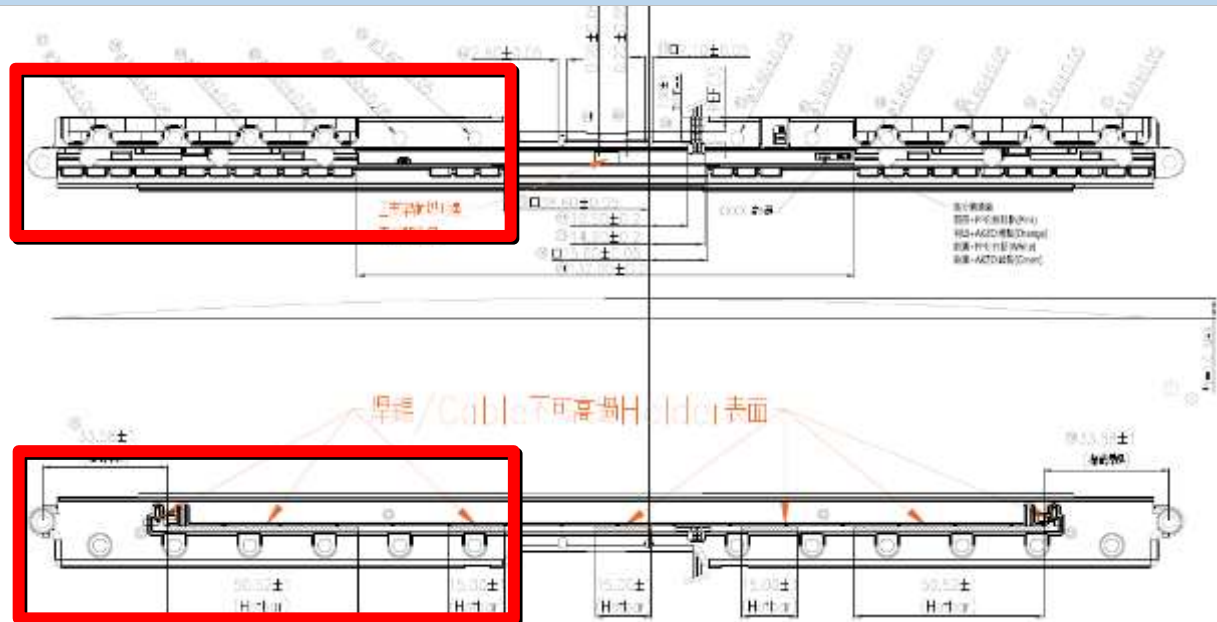
Back



Note: antenna photo should include L type ruler

Aux Antenna

Antenna Drawing



Antenna Photo

Front



Back



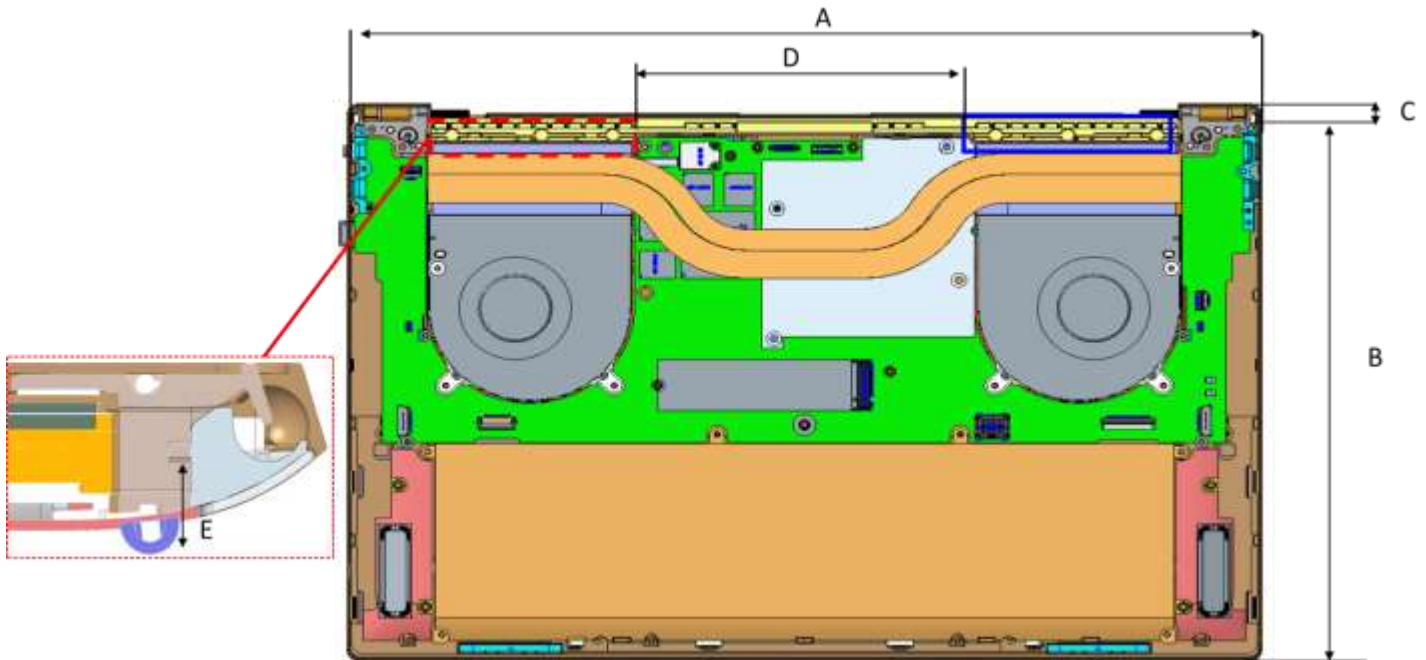
Note: antenna photo should include L type ruler

Annex B. Antenna Location

B.1 Antenna Host Platform Location Information

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.



Item	Location	Distance(mm)
A	System X	355
B	System Y	244
C	Antenna to edge	10
D	Main Antenna to Aux antenna	135
E	Antenna to table	3.9

B.2 Antenna dimensional information 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 lapheld position (example below). For tablet hosts show all orientations including lapheld, 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.

