

ANTENNA INFORMATION

OEM	DELL
ODM	WISTRON
Platform model name	P138F
Intel platform (ex: Yes, No or NA)	Yes
Platform type (ex: regular NB, convertible PC, AIO...etc)	Convertible PC
SAR minimum separation (mm)	FCC (1g) 1.8
	ISED (1g) 74.75
	ISED (10g) 2.4

Antenna manufacturer	Company name	AWAN
	Address	5F., No. 225, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231 , Taiwan
Test location	Company name	AWAN
	Address	5F., No. 225, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231 , Taiwan
Test Personnel	Name(Full name)	Eden Chen
	E-mail	eden.chen@awan-ant.com
	Tel/Mobile	+886-2-8913-1939 #2620
Testing date		2024/10/14

Antenna Part number	Main	AYF6Y-100247
	Aux	AYF6Y-100248
Antenna type (ex: PIFA, Dipole...etc)		PIFA

NB Mode 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	-0.94	0.48	0.98	1.78	1.75	2.00	1.87	0.35	0.93	1.16
Aux	-0.48	1.57	1.50	1.18	1.90	1.97	3.31	-1.10	-0.10	1.73
TB Mode 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	-0.52	0.08	1.82	1.48	1.98	2.08	1.19	-0.22	1.08	0.44
Aux	-0.82	0.48	0.36	0.92	0.92	1.50	3.24	-1.52	0.09	1.82

Cable Assembly Part Number and Information					
	Cable PN	Cable length(mm)	Cable diameter(mm)	Impedance(ohm)	Connector type
Main	SY113L/50-143	170.5	1.13	50	IPEX,20565-001R-13
Aux	SY113L/50-118	240	1.13	50	IPEX,20565-001R-13

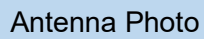
* 3D Antenna Peak Gain required being test in system basis.

Annex A. Photographs

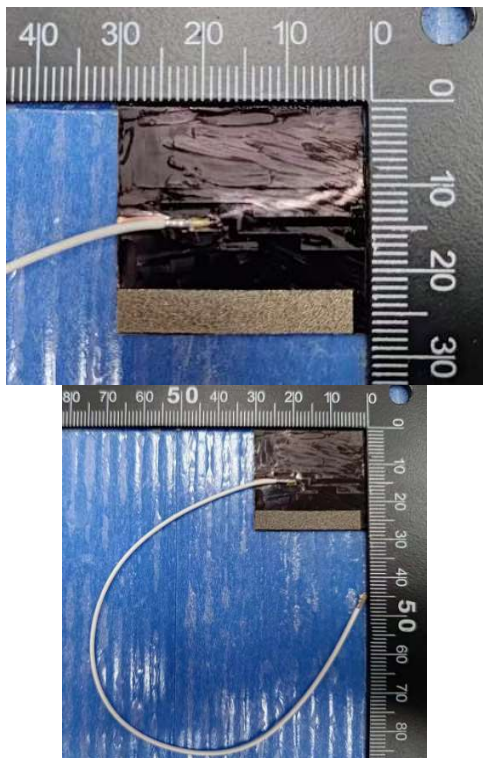
A.1 Setup Photo



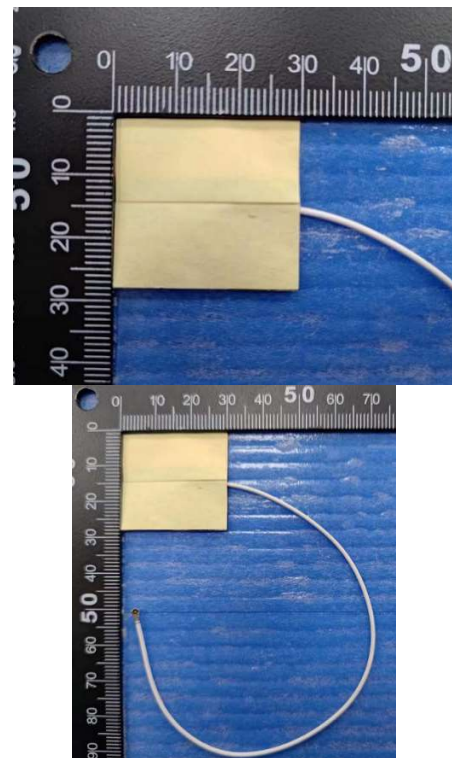
Antenna Drawing



Front



Back



Note: antenna photo should include L type ruler

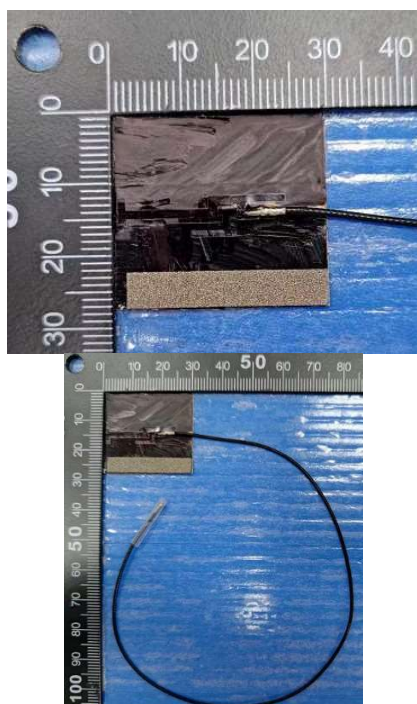
Aux Antenna

Antenna Drawing

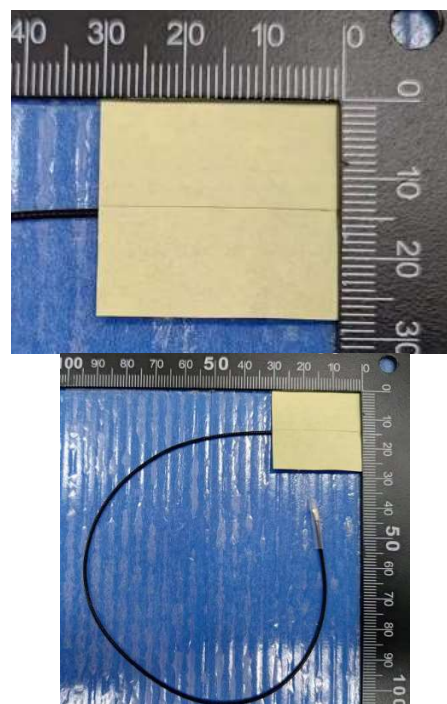


Antenna Photo

Front



Back



Note: antenna photo should include L type ruler

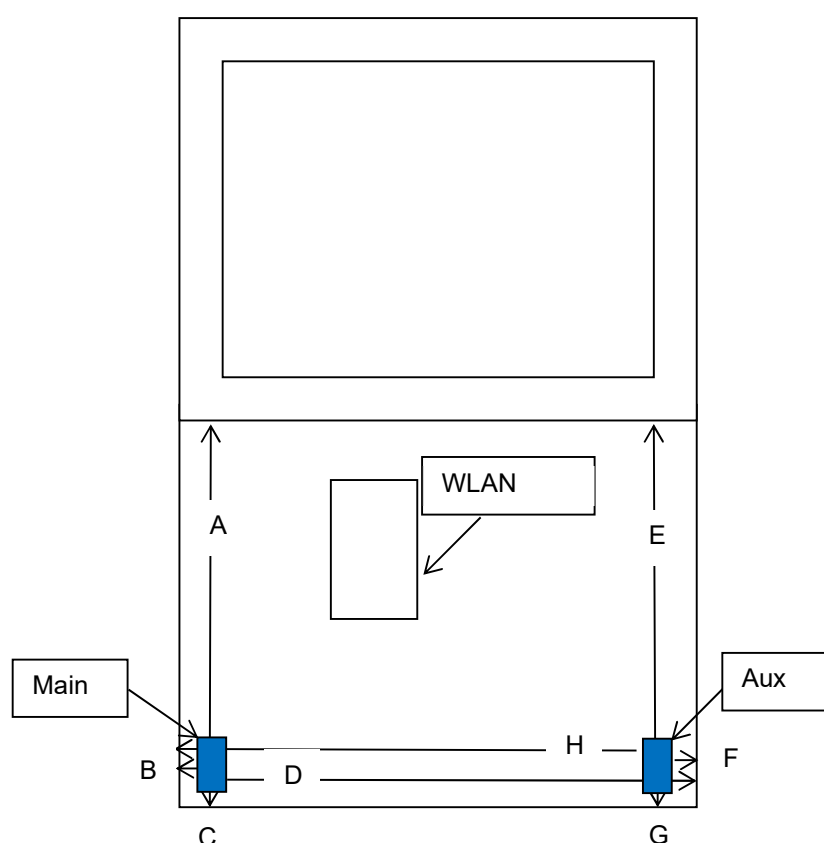
Annex B. Antenna Location

B.1 Antenna Host Platform Location Information

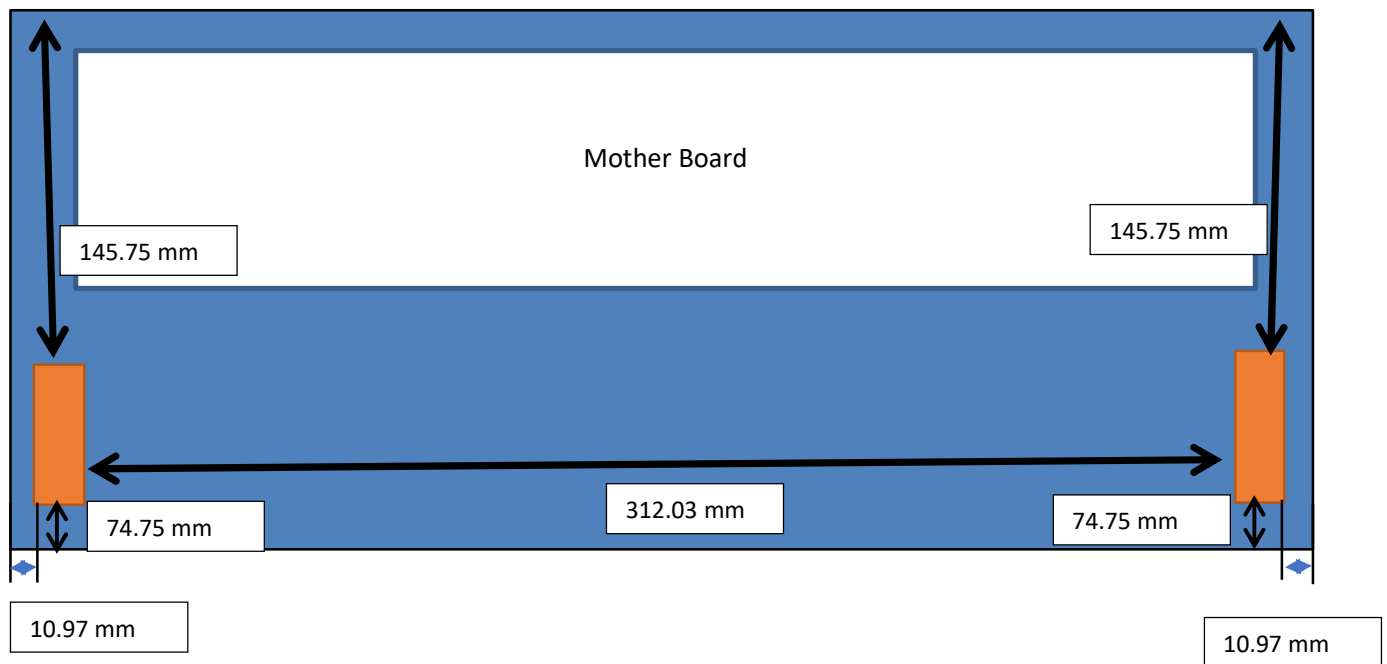
Include a dimensioned photo(s) or dimensioned drawing(s) of Main and Aux antenna placements (measurements are not required for receive-only antenna).

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.

NB mode



Distance	A	B	C	D	E	F	G	H
(mm)	145.75	10.97	74.75	334.4	145.75	10.97	74.75	334.4

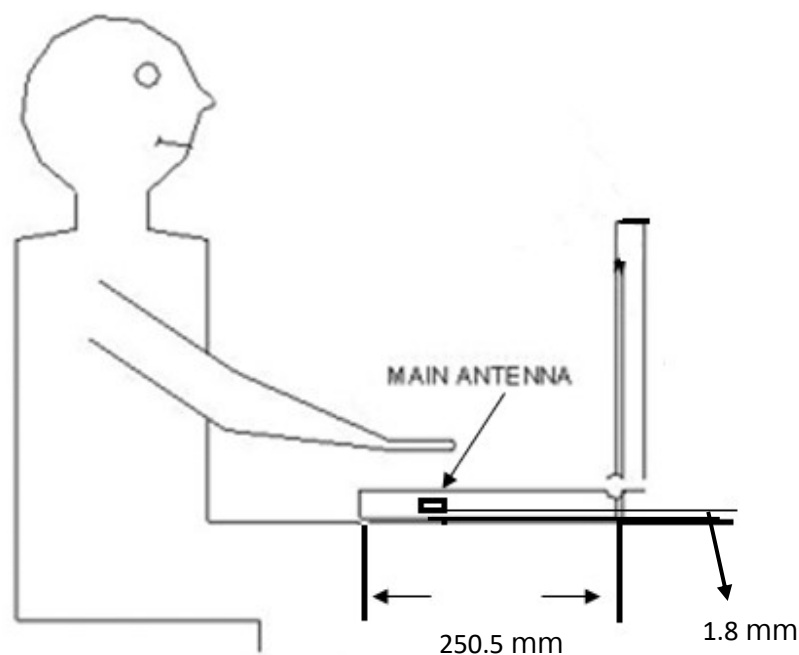


B.2 Antenna dimensional information for SAR evaluation

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.

Antennas on the panel section

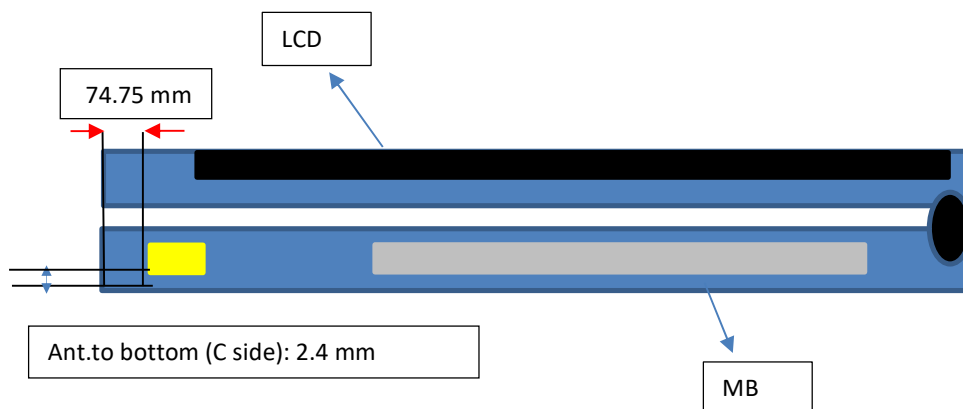
NB mode



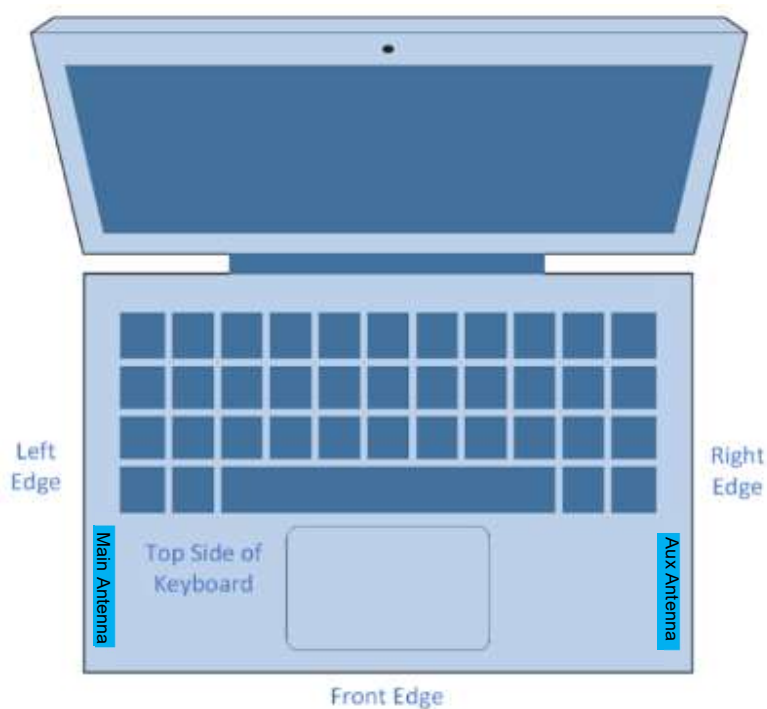
Measuring Surface	Antenna	Separation Distance(antenna-to- Surface)(mm)	1g SAR
Bottom Side	Main	1.8	FCC/ISED
	Aux	1.8	FCC/ISED

Tablet mode

Doc.No.:3.8.05 Rev02



Antennas on the keyboard section



Measuring Surface	Antenna	Separation Distance(antenna-to-Surface)(mm)	1g or 10g SAR
Bottom Side	Main	1.8	1g (FCC/ISED)
	Aux	1.8	1g (FCC/ISED)
Front Edge	Main	74.75	1g (ISED)
	Aux	74.75	1g (ISED)
Left Edge	Main	10.97	10g (ISED)
	Aux	334.4	10g (ISED)
Right Edge	Main	334.4	10g (ISED)
	Aux	10.97	10g (ISED)
Top side of Keyboard	Main	2.4	10g (ISED)
	Aux	2.4	10g (ISED)