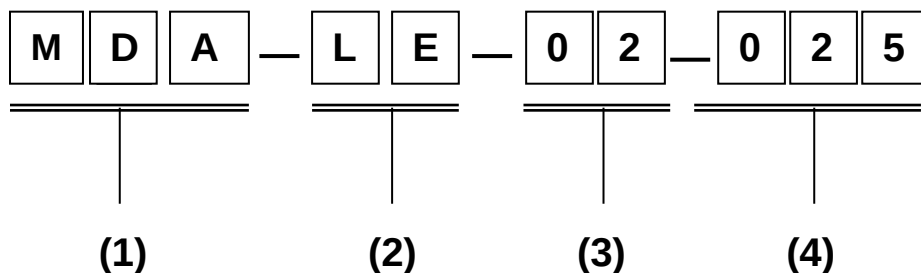


Embedded Multi-Band Antenna for MDA-LE-02-025

1. Explanation of part number :



- (1) Product type/Material : Wireless Antenna/Holder+LDS
- (2) Frequency/Band code : 2400~2500 & 5150~5895MHz & 5925~7125MHz
- (3) Coaxial Cable Type : Black Cable
- (4) Suffix : 025

2. Electrical Specification :

Ant. Part Number (main & MAIN parts)	Type	Highest Peak Gain with Cable Loss (dBi)	Cable loss (dB)	Connector Type	Cable length	Laptop/ Host Model
		2400~7125 MHz	2400~7125 MHz			
Main: INPAQ P/N: MDA-LE-02-025 ASUS P/N: 14008-05890300	PIFA	1.6 @2.4G 3.52 @5G 2.83 @5.925~6.425GHz 3.19 @6425~6525GHz 3.51@6.525~6.875GHz 3.80@6.875~7.125GHz	0.44@2.4G 0.69@5G 0.72@5.925~6.425GHz 0.74@6425~6525GHz 0.75@6.525~6.875GHz 0.78@6.875~7.125GHz	I-PEX MHF4-L	160.5mm	UM3406KA

Antenna Type	PIFA Antenna For WIFI 802.11a/b/g/n/ac/ax	
Connector Type	I-PEX MHF4-L Connector 20565-001R-13	
Cable Type	OD 1.13 LLS RF Cable	
Impedance	50Ω	
Polarization	Linear	
Radiation Pattern	Omni-directional	
Frequency Range	WLAN 802.11a/b/g/n/ac/ax	2.4~2.5GHz & 5.15~7.125 GHz
VSWR	WLAN 802.11a/b/g/n/ac/ax	≤3.5
Operation Temperature	-10℃~+55℃	

Storage Temperature	-30°C~+75°C
Return Loss	≤ -6 dB
Max Power	1W

UNLESS OTHER SPECIFIED TOLERANCES ON :

$$X=\pm \quad X.X=\pm \quad X.XX=\pm$$

ANGLES = $\pm$

HOLEDIA = ±



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY:周敬晨

CHECKED BY:鄭榮謀

DESIGNED BY: 張建焜

APPROVED BY:宋承翰

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**TITLE : Embedded Multi-Band Antenna for
MDA-LE-02-025**

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6-5.3 Gain data and radiation pattern

Antenna gain is marked (dBi) and is based on **STANDARD HORN** antenna. The data shows Peak-Gain and Average-Gain.

Frequency (MHz)	Efficiency (%)	Efficiency (dB)	3D Peak gain (dBi)
2400	35.0	-4.56	1.15
2412	39.0	-4.09	1.60
2437	44.7	-3.50	1.55
2462	43.1	-3.66	1.35
2500	37.8	-4.22	1.42
5150	45.6	-3.41	3.52
5250	51.9	-2.85	2.78
5350	47.5	-3.23	2.41
5470	42.2	-3.75	2.03
5600	38.3	-4.17	2.19
5725	44.9	-3.48	3.28
5780	48.2	-3.17	2.93
5850	42.6	-3.71	2.41
5895	48.2	-3.17	3.45
5925	49.3	-3.07	2.83
6125	43.7	-3.60	1.69
6425	46.6	-3.32	2.12
6525	48.9	-3.11	3.19
6725	54.0	-2.68	3.08
6875	51.2	-2.91	3.51
6925	48.8	-3.12	3.80
7125	44.5	-3.52	3.12

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
 ANGLES=± HOLEDIA=±



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

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MDA-LE-02-025

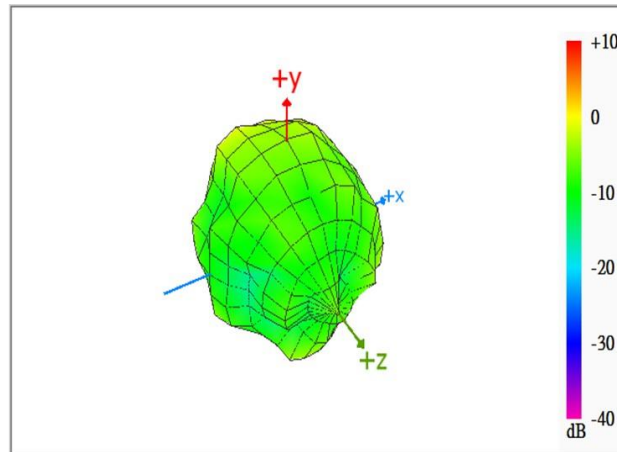
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Radiation characteristics of antenna loaded in Host Platform

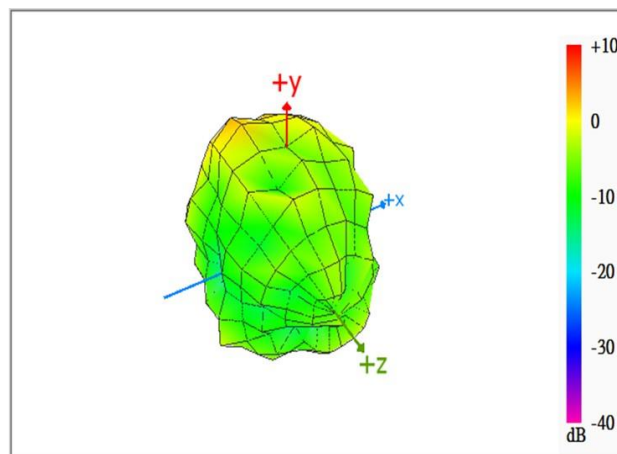
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.6



Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	3.52



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
 ANGLES=± HOLEDIA=±



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY:周敬晨

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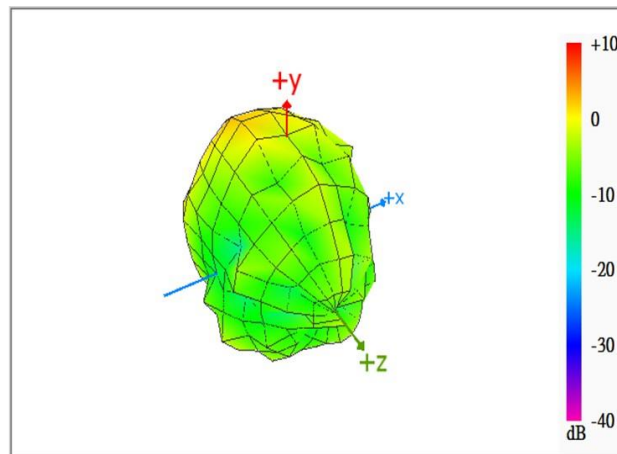
TITLE : Embedded Multi-Band Antenna for
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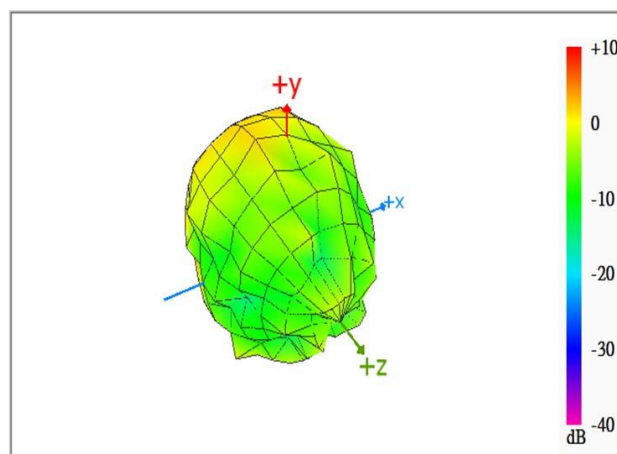
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.78



Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	3.28



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
 ANGLES=± HOLEDIA=±



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY:周敬晨

CHECKED BY:鄭榮謀

DESIGNED BY: 張建焜

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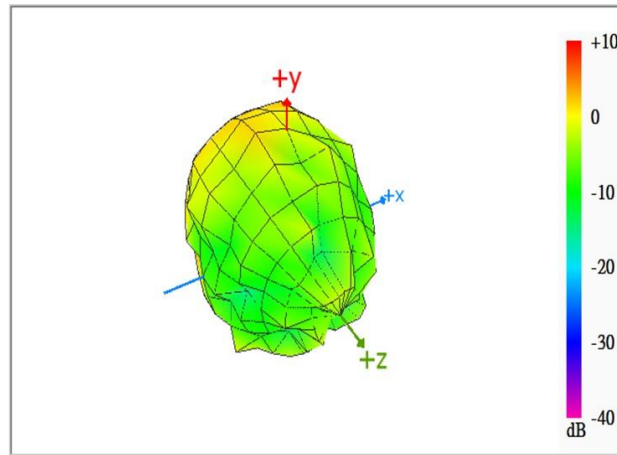
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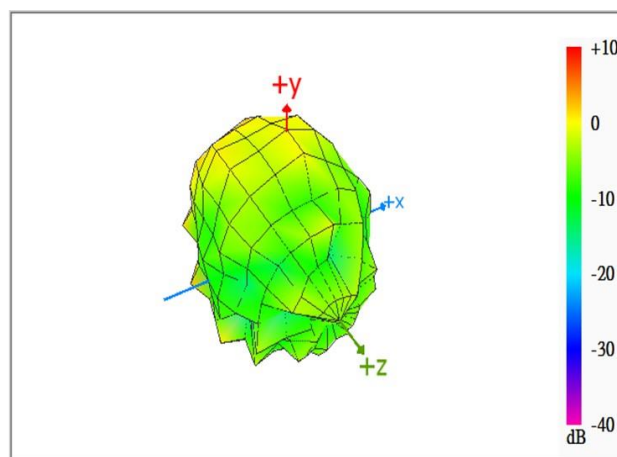
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	3.28



Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	3.45



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
 ANGLES=± HOLEDIA=±



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY:周敬晨

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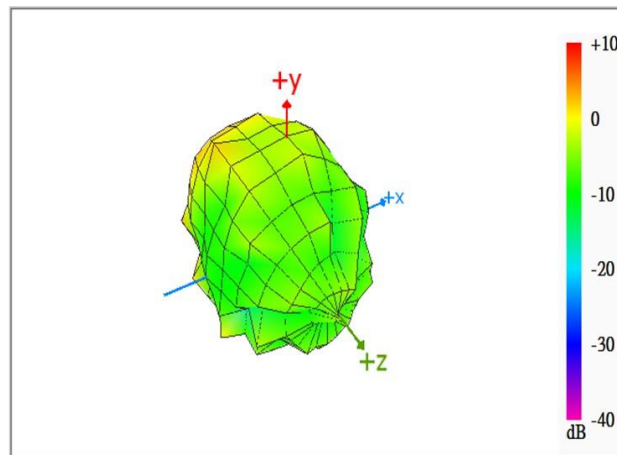
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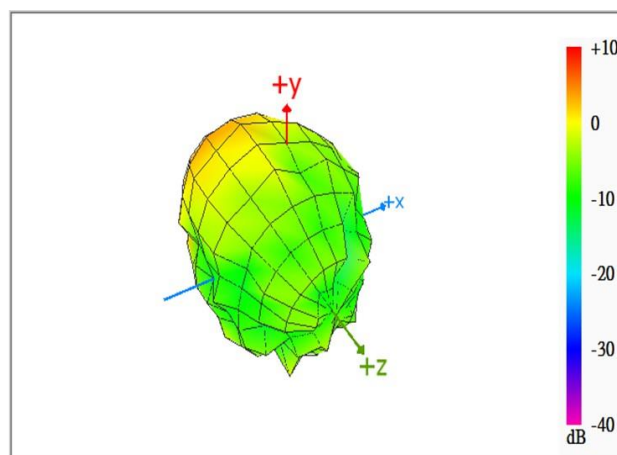
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	2.83



Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	3.19



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
 ANGLES=± HOLEDIA=±



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY:周敬晨

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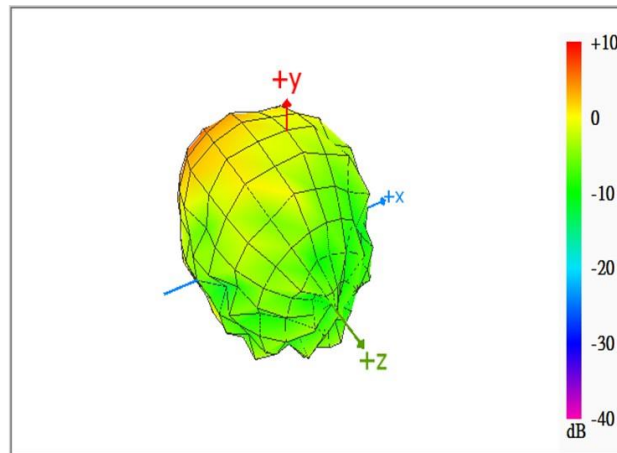
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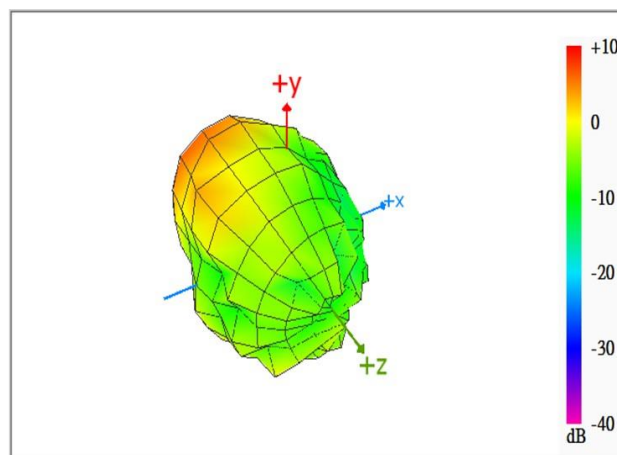
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	3.51



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	3.8



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
 ANGLES=± HOLEDIA=±



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY:周敬晨

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