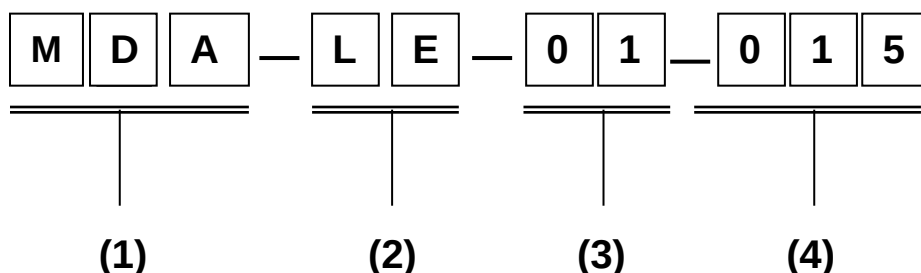


Embedded Multi-Band Antenna for MDA-LE-01-015

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 : White Cable
- (4) Suffix : 015

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			
AUX: INPAQ P/N: MDA-LE-01-015 ASUS P/N: 14008-05890200	PIFA	1.52 @2.4G 3.18 @5G 2.57 @5.925~6.425GHz 2.57 @6425~6525GHz 3.27@6.525~6.875GHz 3.93@6.875~7.125GHz	0.92@2.4G 1.44@5G 1.51@5.925~6.425GHz 1.54@6425~6525GHz 1.58@6.525~6.875GHz 1.63@6.875~7.125GHz	I-PEX MHF4-L	333mm	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=±	X.X=±	X.XX=±
ANGLES=±		HOLEDIA=±



INPAO TECHNOLOGY CO., LTD.

SCALE : N/A	UNIT : mm
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DRAWN BY:周敬晨	CHECKED BY:鄭榮謀
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DESIGNED BY: 張建焜	APPROVED BY: 宋承翰
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**TITLE : Embedded Multi-Band Antenna for
MDA-LE-01-015**

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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	30.8	-5.12	1.21
2412	34.3	-4.65	1.43
2437	38.2	-4.18	1.52
2462	37.9	-4.21	1.30
2500	30.8	-5.11	1.11
5150	32.8	-4.84	2.91
5250	31.5	-5.02	3.17
5350	35.8	-4.46	2.89
5470	37.5	-4.26	2.27
5600	30.3	-5.19	2.12
5725	39.0	-4.09	1.93
5780	36.9	-4.33	3.18
5850	31.4	-5.03	2.19
5895	31.2	-5.06	2.72
5925	34.5	-4.62	2.01
6125	41.8	-3.79	1.95
6425	38.8	-4.11	2.57
6525	39.4	-4.05	2.02
6725	44.5	-3.52	3.27
6875	48.2	-3.17	2.98
6925	46.3	-3.34	3.93
7125	44.8	-3.49	3.01

Radiation characteristics of antenna loaded in Host Platform

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
 ANGLES=± HOLEDIA=±



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UNIT : mm

DRAWN BY:周敬晨

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APPROVED BY:宋承翰

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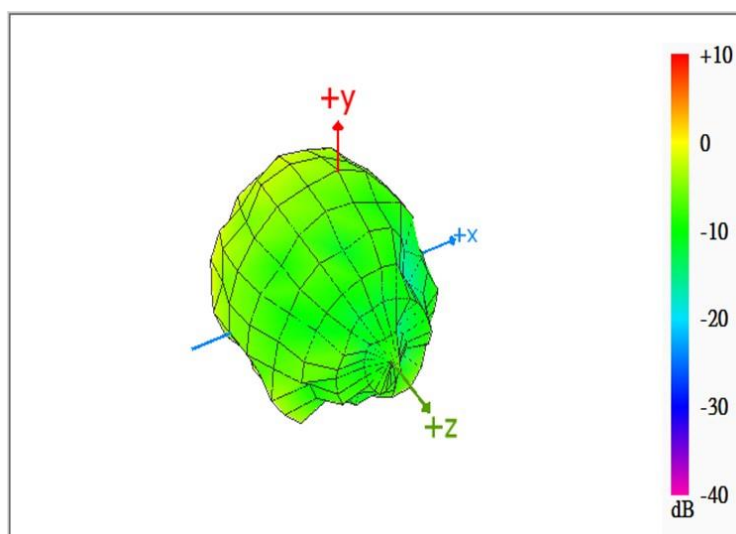
TITLE : Embedded Multi-Band Antenna for
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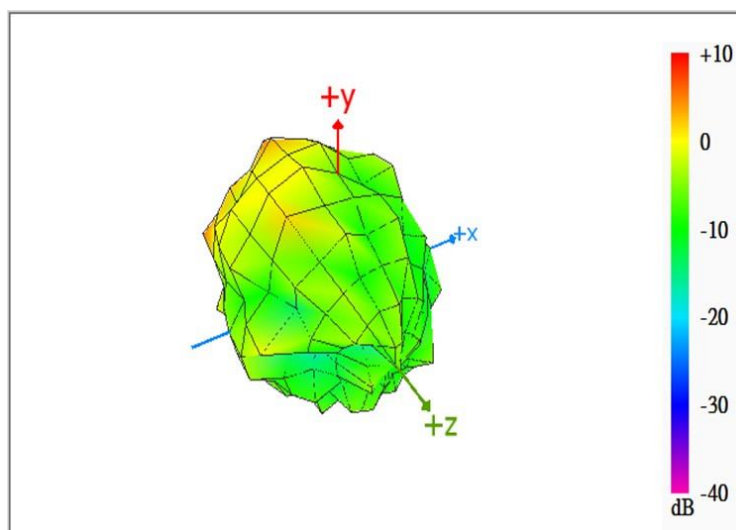
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.52



Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	3.17



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
 ANGLES=± HOLEDIA=±



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SCALE : N/A

UNIT : mm

DRAWN BY:周敬晨

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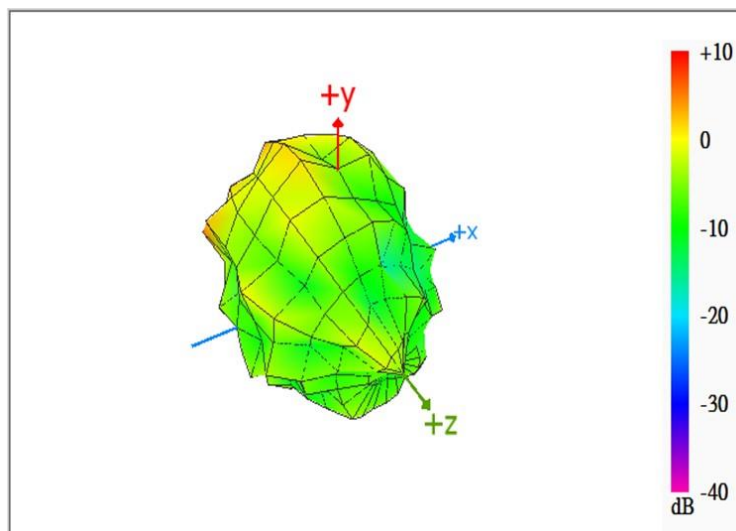
TITLE : Embedded Multi-Band Antenna for
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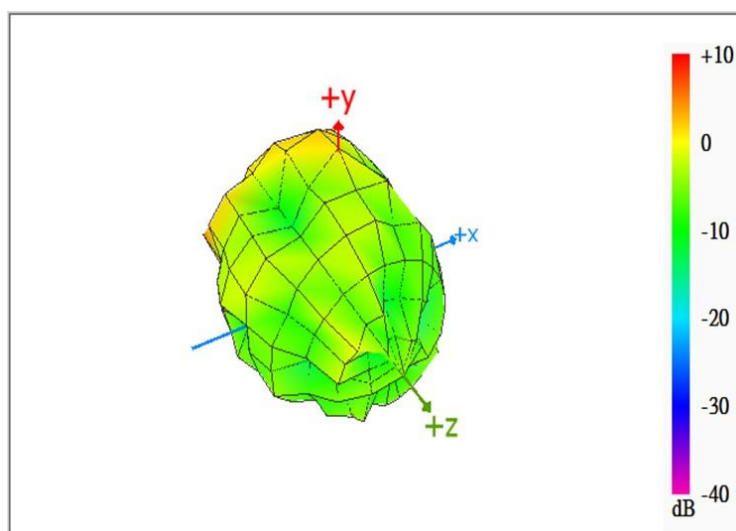
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	3.17



Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	2.27



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

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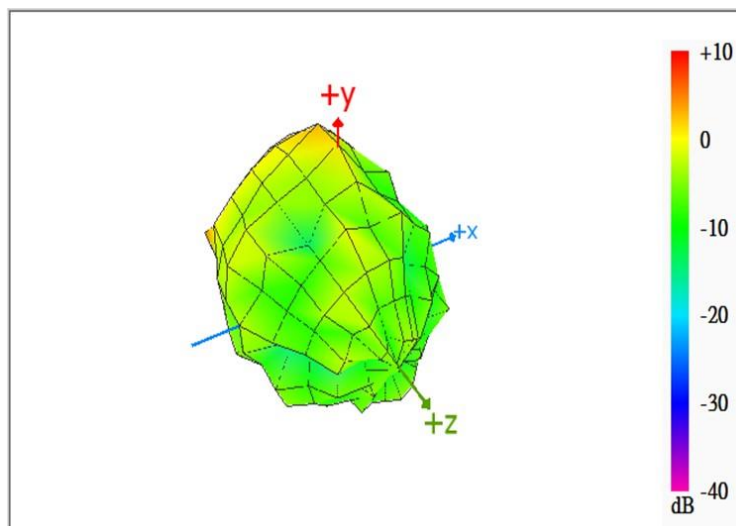
TITLE : Embedded Multi-Band Antenna for
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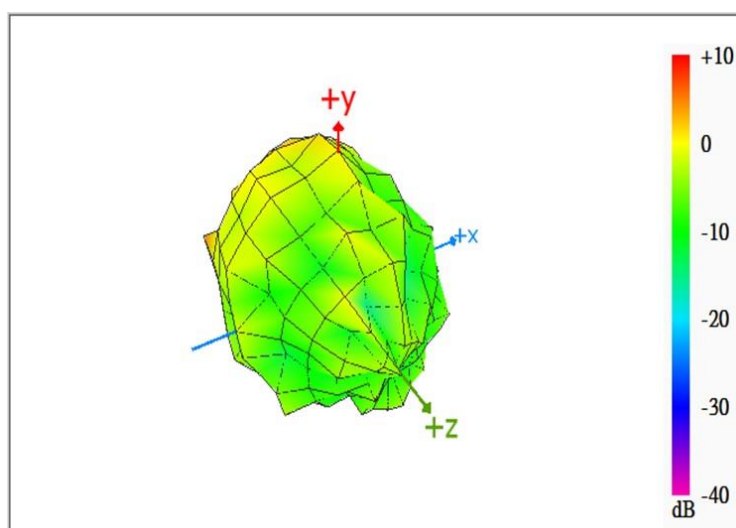
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	3.18



Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	2.72



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±



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SCALE : N/A

UNIT : mm

DRAWN BY:周敬晨

CHECKED BY:鄭榮謀

DESIGNED BY: 張建焜

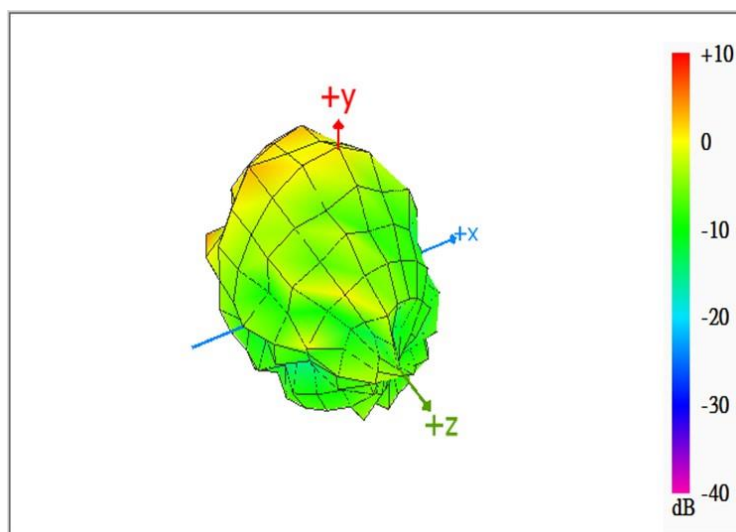
APPROVED BY:宋承翰

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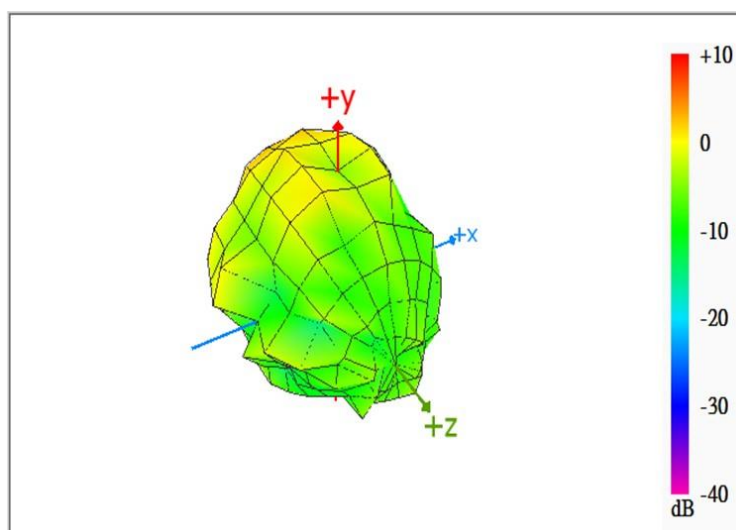
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	2.57



Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.57



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
 ANGLES=± HOLEDIA=±



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SCALE : N/A

UNIT : mm

DRAWN BY:周敬晨

CHECKED BY:鄭榮謀

DESIGNED BY: 張建焜

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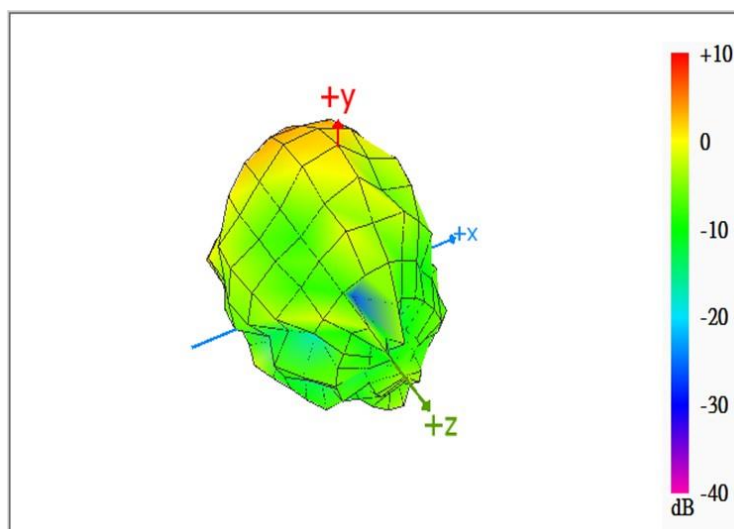
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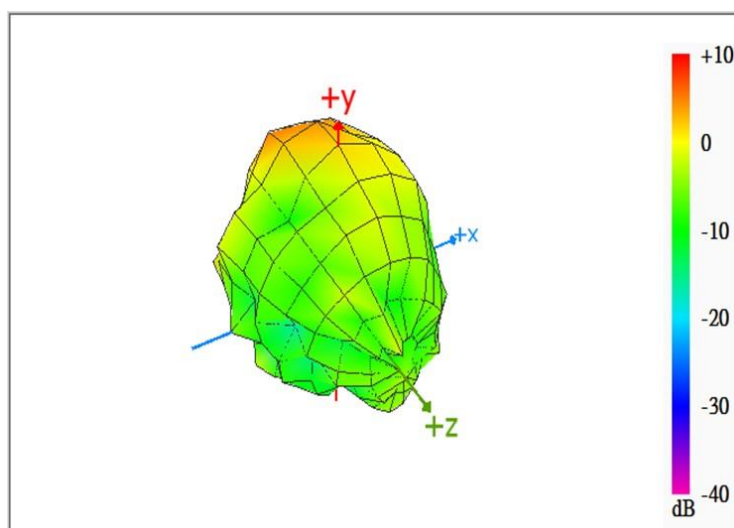
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	3.27



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	3.93



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±



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SCALE : N/A

UNIT : mm

DRAWN BY:周敬晨

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