



Antenna Datasheet

Product OC: Y4SCV0MA1DA

Version: 1.0

Date: 2025-12-11

Product Name: Wi-Fi Adhesive Mount FPC Monopole Antenna

Key Features:

Frequency Band: 2400–2500 MHz

Dimensions: 28.9 mm × 13.95 mm × 0.2 mm

Efficiency: Up to 55.6 %

RoHS and REACH Compliant

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1 Specification

Test Condition: Assembled in test device

1.1. Electrical

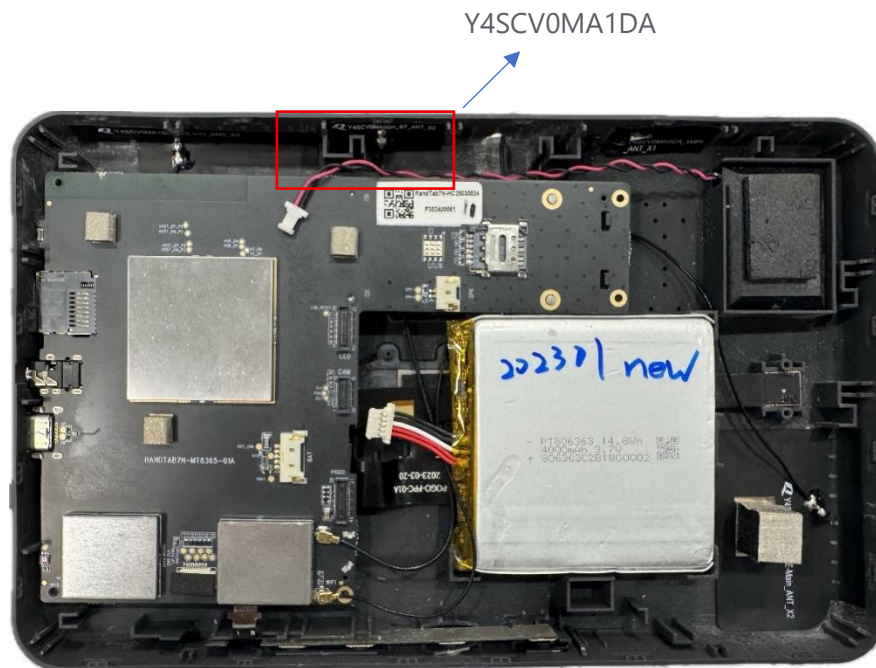
Electrical	
Frequency Range	2400–2500 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional

Electrical - Detail													
SPEC	Band	Band	B71	B12 /B13 /B28	B5 /B8 /B26	n74 /n75 /n76	B1 /B2 /B3	B40	Wi-Fi 2G	B38 /B41	B42 /B48 /n77	n79	Wi-Fi 5G
	Freq. (MHz)	600– 700	700– 810	820– 960	1420– 1520	1700– 2170	2300– 2400	2400– 2500	2500– 2690	3300– 4200	4400– 5000	5150– 5850	
Max. VSWR		-	-	-	-	-	-	-	2.4	-	-	-	-
Max. Return Loss (dB)		-	-	-	-	-	-	-	-7.6	-	-	-	-
AVG Eff. (%)		-	-	-	-	-	-	-	54.0	-	-	-	-
AVG AVG Gain (dB)		-	-	-	-	-	-	-	-2.7	-	-	-	-
Max. Peak Gain (dBi)		-	-	-	-	-	-	-	1.9	-	-	-	-
VSWR							≤ 2.4						
Return Loss							≤ -7.6 dB						
Peak Gain							≤ 1.9 dBi						

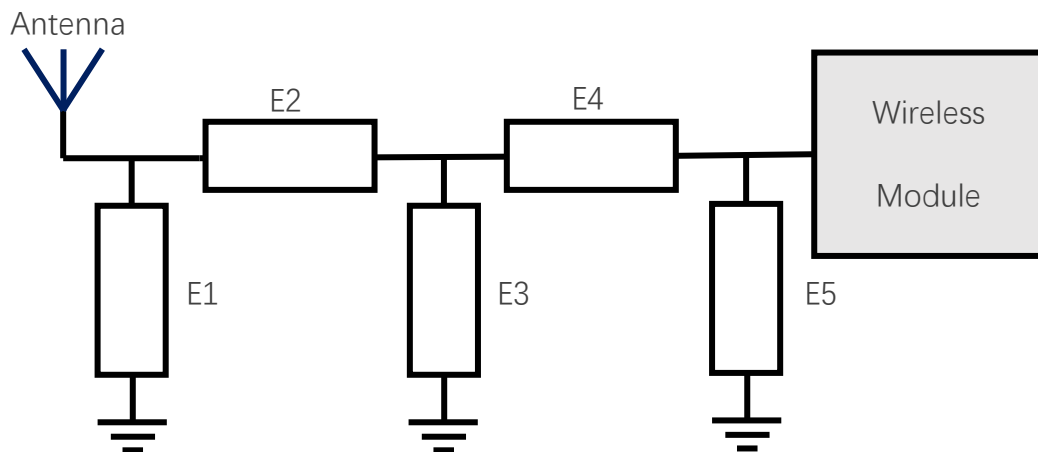
1.2. Mechanical & Storage

Mechanical	
Antenna Dimensions	28.9 mm × 13.95 mm × 0.2 mm
Material & Color	FPC & Black
Cable Type & Color & Length	Φ 0.81 & Grey & 125 mm
Connector Type	ECT RF2
Mounting Type	Adhesive
Weight	Typ. 0.6 g
Environmental	
Operation Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C
RoHS & REACH Compliant	Yes

1.3. Antenna Assembly

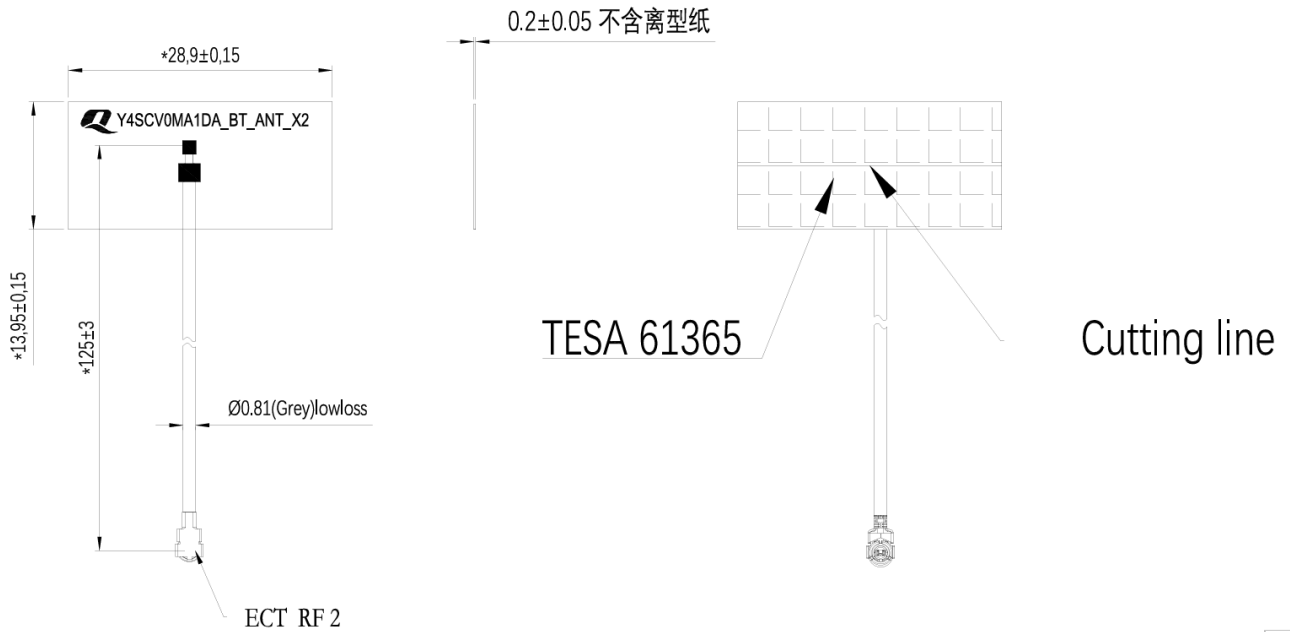


1.4. Matching Circuit



	E1	E1	E3	E4	E5
Default Matching	DNI	0 Ohm	DNI	0 Ohm	DNI
Tolerance	N/A		N/A		N/A

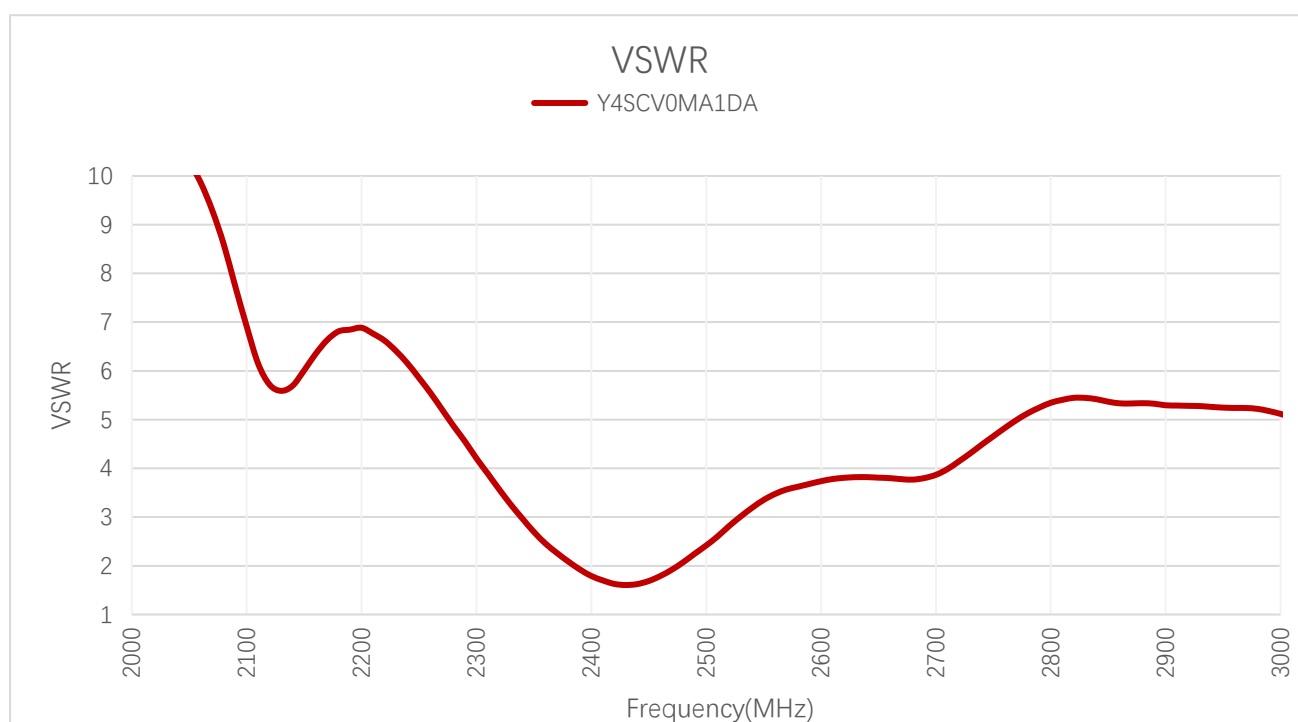
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

3.1.1. VSWR

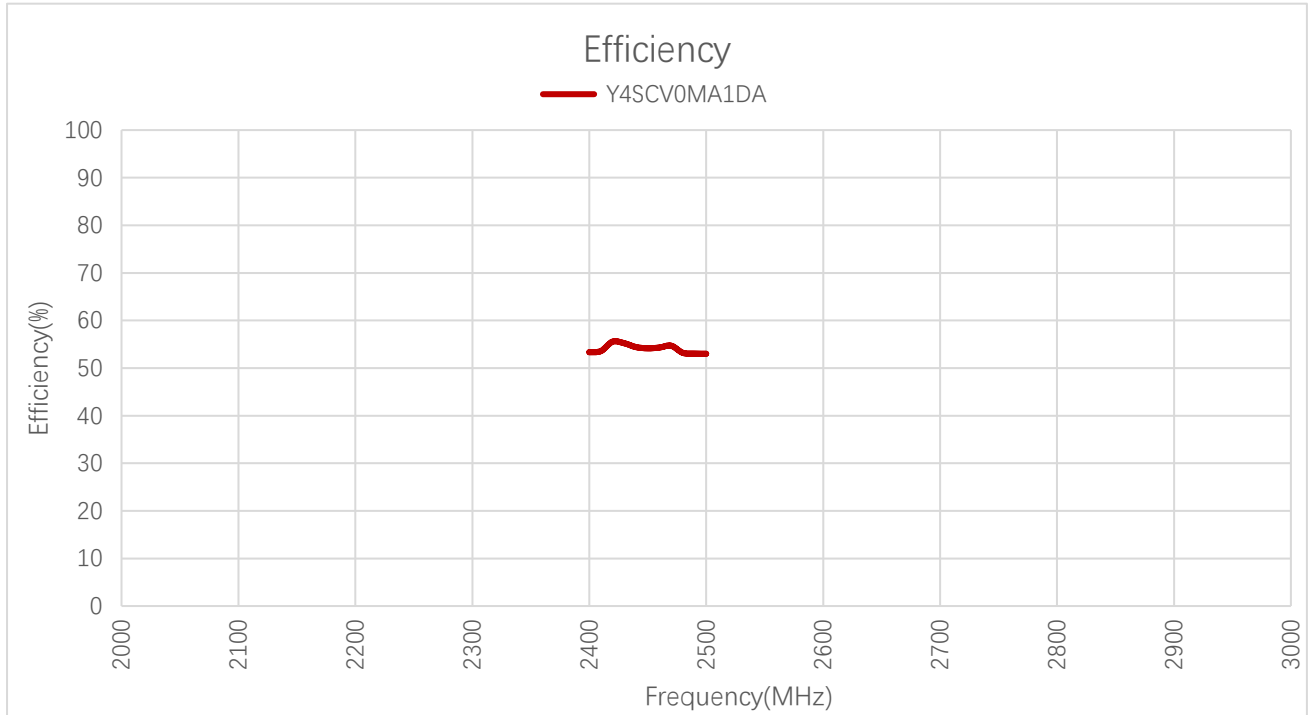


VSWR

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6525	7125
VSWR	1.8	1.7	2.4	-	-	-	-	-	-

3.2. Radiation Performance Test

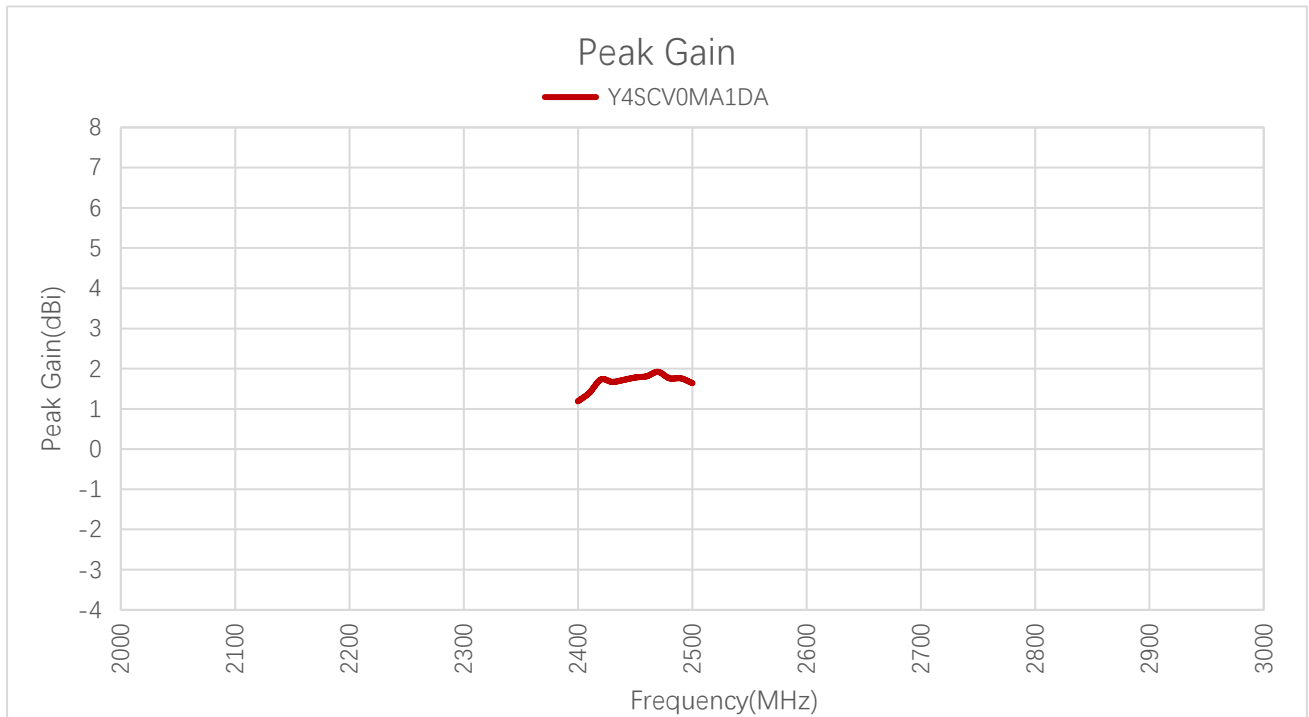
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6525	7125
Efficiency (%)	53.3	54.2	53	-	-	-	-	-	-

3.2.2. Peak Gain

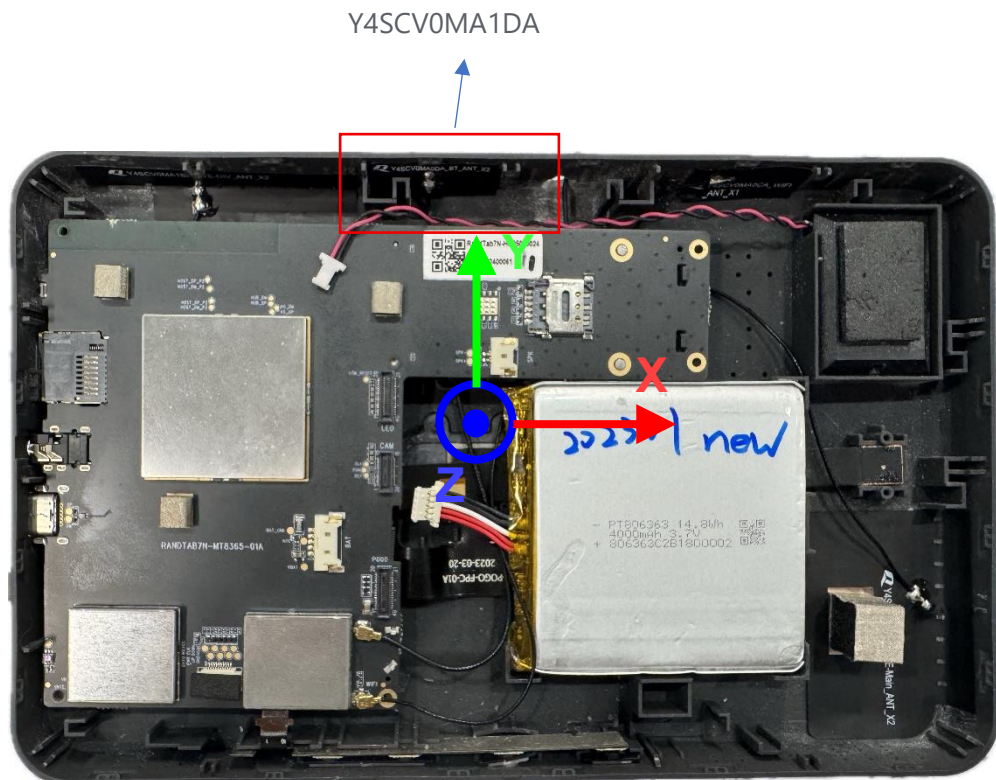


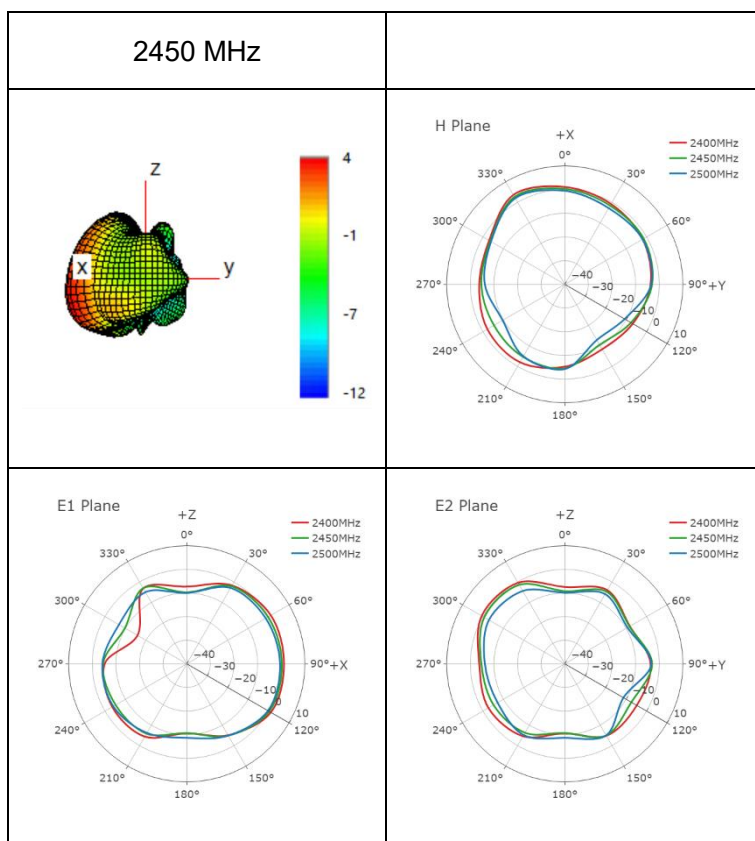
Peak Gain (dBi)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6525	7125
Peak Gain (dBi)	1.2	1.8	1.6	-	-	-	-	-	-

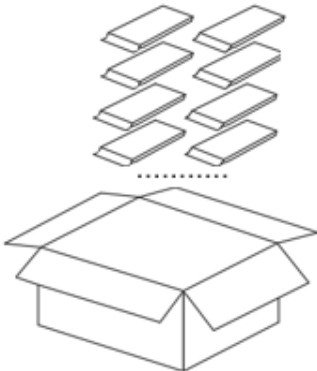
3.2.3. 3D & 2D Radiation Pattern

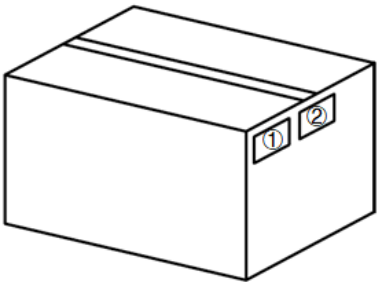
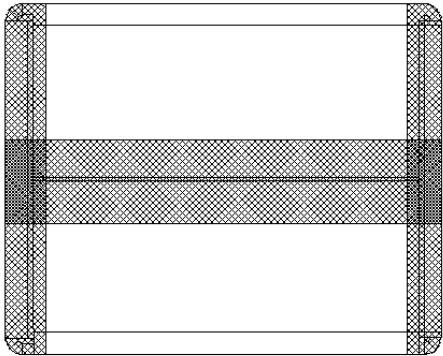
- Test Condition: Assembled in test device
- Test Chamber: GL-G-1





4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		50 antenna products are wrapped with EPE foam (50 Antennas / Tie)
2		100 antenna products in a PE bag. (100 Antennas / PE Bag)
3		(40 PE Bags / Carton Box) (4000 Antennas / Carton Box) Estimated quantity Products that cannot fill the entire carton box are packed in a suitable size carton box. <u>Carton Size:</u> <u>L × W × H = 300 × 250 × 200mm</u>

4		Position for Attaching Labels ① Carton Label ② Quality Label
5		Sealing Cartons H-shaped sealing cartons
Note	The initial packaging method described above is for reference only, and the final actual packaging method shall be subject to the actual shipping packaging.	

Contact Us

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Revision History

Version	Date	Author	Note
-	2025-12-11	Edwin Xiao/ Steven Mo/ Strong Qiang/ Rainey Liao	Creation of the document
1.0	2025-12-11	Edwin Xiao/ Steven Mo/ Strong Qiang/ Rainey Liao	First official release



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