

Reliability Test Report

Product Name:	Wi-Fi Series
Product Model:	Ai-M62-13U_V2.0 High-Temperature Version
Test Date:	2026.02.14-2026.03.30
Tested by:	Dong Wenchao
Reviewed by:	An Sanchao




1. Inspection Plan

No.	Process Name	Inspection Item	Inspection Equipment	Sampling Level (Refer to GB/T 2828.1-2012)	Acceptable Quality Level		
					CR (Critical Defect)	MA (Major Defect)	MI (Minor Defect)
1	Reliability test	High Temperature Operation	Constant temperature and humidity chamber	Normal single sampling, special inspection S-1	0 accept, 1 reject		


2. Test Items

No.	Item	Test Conditions	Test Duration
1	105°C Test	Continuous operation at 105°C for 1000 hours	1000 hours

3. Test Preparation

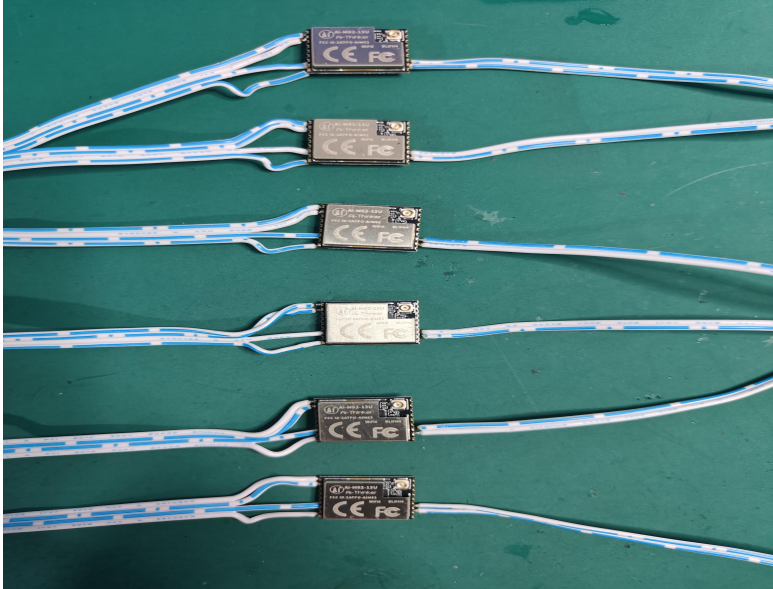
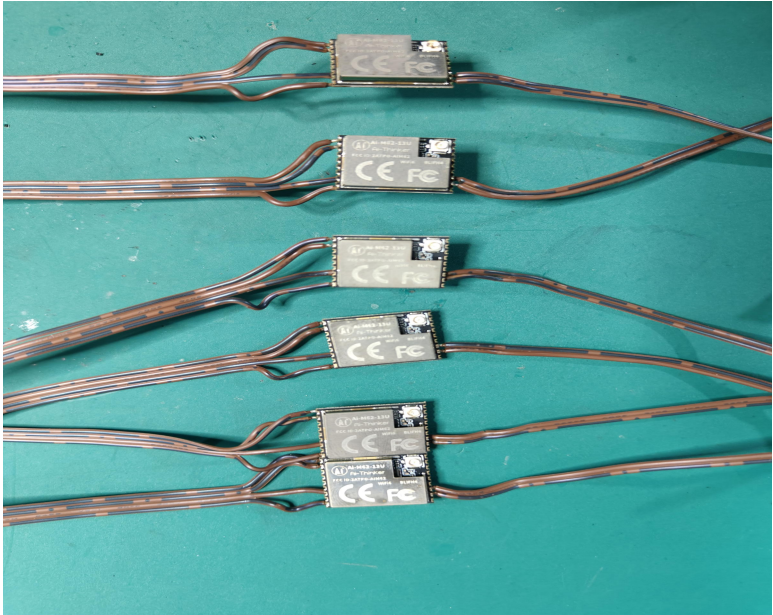
No.	Item	Image/Attachment
1	Reliability documentation	 Ai-M61系列 可靠性WIFI测试说
No.	Item	Image/Attachment
2	Test equipment	
No.	Item	Image/Attachment
3	Sample placement	
4	Test reason	Verify the reliability of the M62 series products in high-temperature environments

4. Operating Time

No.	Item	Image/Attachment
1	Operating Time: Total 11 test stages; cumulative operating time: 1007 hours	

5. Before-and-After Physical Comparison

After the test, oxidation of the shield cover was observed (see comparison images).

<p>Test Quantity</p>	<p>6</p>
<p>Pre-test</p>	
<p>Post-test</p>	

6. 105°C Test

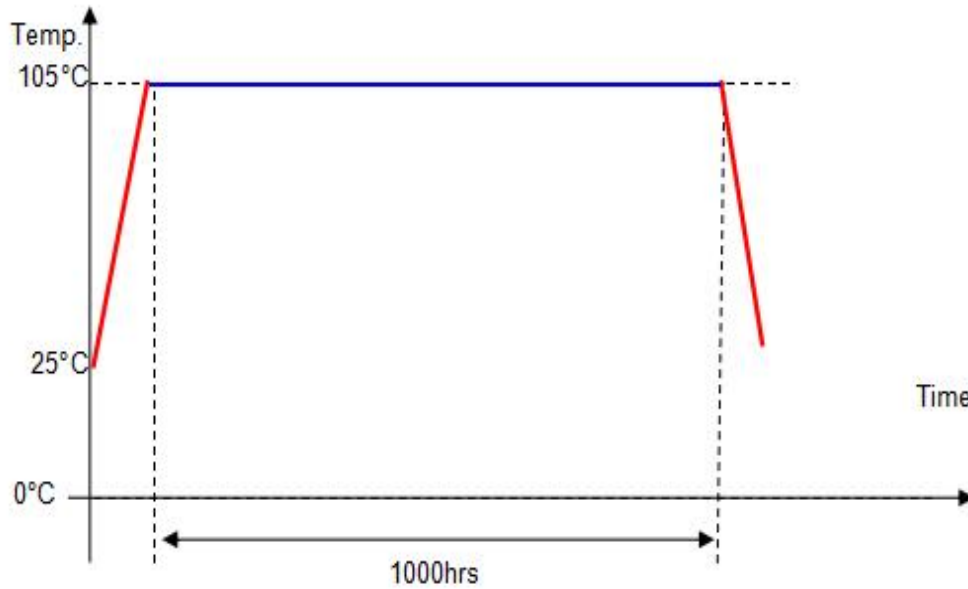
Test Conditions:

Continuous operation at 105°C for 1000 hours.

Test Profile:

Is Power Off _____

Is Power On _____



Test Criteria:

1. During normal operation, the module functions properly. If the ping packet loss rate is less than 1%, the module is considered to be functioning normally.
2. After the test, the product shows no visible damage such as shrinkage, peeling, or discoloration.

As the ATKKPING software cannot display data longer than 100 hours, test data was collected in 11 stages.

Test Stage	Test Data	Test Results
<p>Stage 1: 95 hours</p>		<p>PASS</p>
<p>Stage 2: 92 hours</p>		<p>PASS</p>
<p>Stage 3: 98 hours</p>		<p>PASS</p>

Stage 4: 96 hours

PASS

ATKPING interface showing configuration and results for three target hosts: 192.168.50.127, 192.168.50.134, and 192.168.50.136. The results show successful ping operations with low packet loss and RTT values.

Stage 5: 96 hours

PASS

ATKPING interface showing configuration and results for three target hosts: 192.168.50.127, 192.168.50.134, and 192.168.50.136. The results show successful ping operations with low packet loss and RTT values.

Stage 6: 98 hours

PASS

ATKPING interface showing configuration and results for three target hosts: 192.168.50.127, 192.168.50.134, and 192.168.50.136. The results show successful ping operations with low packet loss and RTT values.

Stage 7: 94 hours

PASS

ATKPING utility windows showing ping results for IP addresses 168.50.127, 168.50.134, and 168.50.136. Each window displays statistics like 'Ping 统计值' and 'Ping 统计值'.

Stage 8: 97 hours

PASS

ATKPING utility windows showing ping results for IP addresses 168.50.127, 168.50.134, and 168.50.136. Each window displays statistics like 'Ping 统计值' and 'Ping 统计值'.

Stage 9: 95 hours

PASS

ATKPING utility windows showing ping results for IP addresses 168.50.127, 168.50.134, and 168.50.136. Each window displays statistics like 'Ping 统计值' and 'Ping 统计值'.

Stage 10: 96 hours

PASS

The screenshot displays six individual ATKPING test windows. Each window shows the target IP address, test duration, and detailed statistics including packet count, minimum/maximum ping times, and start/end times. The tests are conducted from 192.168.50.127, 192.168.50.134, 192.168.50.136, 192.168.50.149, 192.168.50.48, and 192.168.50.83. The results consistently show successful connections with very low packet loss rates.

Stage 11: 50 hours

PASS

The screenshot displays six individual ATKPING test windows for Stage 11. Similar to Stage 10, it shows target IP addresses, test durations, and performance metrics. The tests are conducted from 192.168.50.127, 192.168.50.134, 192.168.50.136, 192.168.50.149, 192.168.50.48, and 192.168.50.83. The results continue to show high success rates and minimal packet loss.

Test result: A total of 1007 hours of testing was conducted, and the packet loss rate of all 6 samples was less than 1%. The test passed.