



**AAEON Technology INC.**  
ISO-9001/ISO-14001 Certified  
Industrial Automation PCs

# **GENE-5310**

## **Temperature / Humidity Test Report**

Issued by:

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Rex Chang  
QE Engineer

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*06/10/2002*

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Date

Reviewed by:

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Wen - Yuan Yang  
QE Manager

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*06/10/2002*

\_\_\_\_\_  
Date

1. Test Product: Intel Low-power SubCompact Board
2. Model Name: GENE-5310 REV.A1.1
3. Test Date: 05-17-2002
4. Test Site: AAEON QA Internal Lab.
5. Test Equipment

| Type  | MFR  | Model Number | Serial Number | Last CAL. |
|---|------|--------------|---------------|-----------|
| Programmable Temperature & Humidity Chamber | KSON | Ths-D4L+-100 | 2582          | 10/29/01  |
|   |      |              |               |           |

6. Test Standard :

| NO.         | Description                         |
|-------------|-------------------------------------|
| IEC 68-2-30 | Test DB : Damp Heat Test            |
| IEC 68-2-61 | Test Z/ABD : Climatic Sequence Test |

7. Testing Item:
  - Temperature & Humidity Cycle
  - Test Temperature & Humidity Power On/Off Test

8. Additional Test Peripheral:

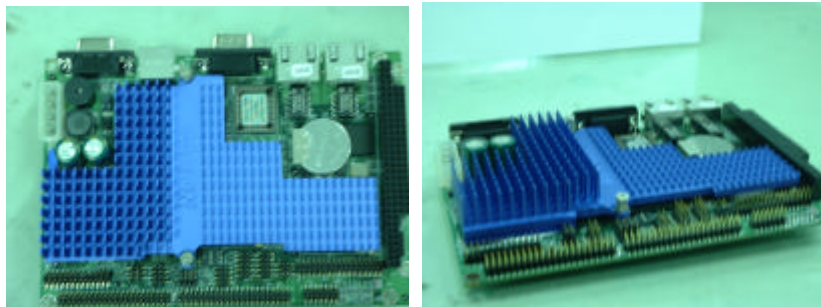
| Configuration | Model                      |
|---------------|----------------------------|
| Test Software | QAPLus 5.5                 |
| Test Fixture  | Power on/off(110V) Fixture |

9. Sample Configuration & Quantity Under Test:

Quantity: 1  
 Sample Configuration:

|                     |  |
|---------------------|--|
| CPU                 | Onboard Intel Tillamook BGA CPU 266MHz     |
| DRAM                | SDRAM PC100128MB NEC D45128163G5-A80-9JF   |
| System BIOS Version | GENE-5310 Rev 1.1                          |
| Chipset             | CBi7 / VT82C686B                           |
| VGA Chipset         | North Bridge CBi7 (Share memory up to 8MB) |
| I/O Chipset         | VT82C686B                                  |
| Cooler (P/N)        | M165310000                                 |
|                     |  |

Cooler (P/N): M165310000



10. Test Result:

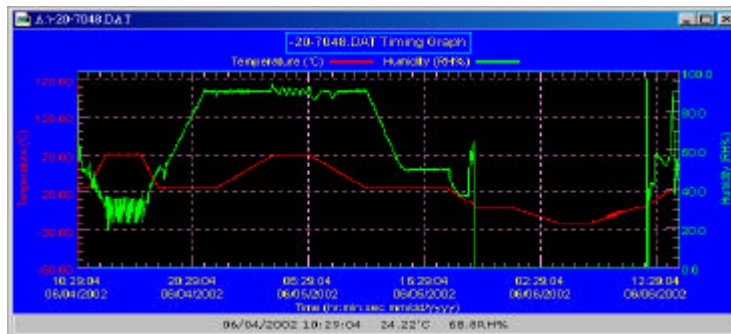
| Standard    | Description  | Result |
|-------------|--|--------|
| IEC 68-2-61 | Temperature & Humidity Cycle Test (Run QAPLus 5.5) | Pass   |
| IEC 68-2-30 | Temperature & Humidity Power On/Off Test           | Pass   |

11. Temperature & Humidity Cycle Test:

11-1 Testing Specification:

| Step | Temperature ( ) | Humidity (%RH) | Duration (HH:MM) |
|------|-----------------|----------------|------------------|
| 1    | 25              | 50             | 00:30            |
| 2    | 25              | 50             | 00:30            |
| 3    | 70              | 30             | 01:30            |
| 4    | 70              | 30             | 03:00            |
| 5    | 25              | 50             | 01:30            |
| 6    | 25              | 50             | 00:30            |
| 7    | 25              | 90             | 03:30            |
| 8    | 25              | 90             | 01:00            |
| 9    | 70              | 90             | 05:00            |
| 10   | 70              | 90             | 03:00            |
| 11   | 25              | 90             | 05:00            |
| 12   | 25              | 50             | 03:00            |
| 13   | 25              | 50             | 03:30            |
| 14   | 25              | 50             | 00:30            |
| 15   | 0               | 0              | 02:30            |
| 16   | 0               | 0              | 03:00            |
| 17   | -20             | 0              | 04:00            |
| 18   | -20             | 0              | 03:00            |
| 19   | 0               | 0              | 04:00            |
| 20   | 0               | 0              | 00:30            |
| 21   | 25              | 50             | 02:30            |
| 22   | 25              | 50             | 00:30            |

11-2 Test Curve:



12. Temperature & Humidity Power On/Off Test

11-1 Testing Specification:

| Step | Temperature ( ) | Humidity (%RH) | Duration (HH:MM) |
|------|-----------------|----------------|------------------|
| 1    | 25              | 50             | 00:30            |
| 2    | 25              | 50             | 00:30            |
| 3    | 25              | 90             | 01:00            |
| 4    | 25              | 90             | 00:30            |
| 5    | 70              | 90             | 04:30            |
| 6    | 70              | 90             | 02:00            |
| 7    | -20             | 0              | 08:26            |
| 8    | -20             | 0              | 02:00            |
| 9    | 25              | 50             | 04:14            |
| 10   | 25              | 50             | 03:20            |

11-2 Test Curve:

