|  |  |  |  |
| --- | --- | --- | --- |
| **FAN PWM / GPIO (definition)** | **FAN Speed (rpm)** | **Quiet Mode** | **Cool Mode**  ***(shift 5****℃)* |
| V10 W40 | 1076 | HDD < 46℃ | HDD < 40℃ |
| V20 W40 | 1265 | 46℃< HDD < 52℃ | 40℃< HDD < 46℃ |
| V50 W40 | 1504 | 52℃< HDD < 55℃  (60℃< CPU) | 46℃< HDD < 50℃  (55℃< CPU) |
| V70 W40 | 1612 | 55℃< HDD < 58℃ | 50℃< HDD < 53℃ |
| V99 W40 | 1700 | 58℃< HDD < 61℃  (70℃< CPU) | 53℃< HDD < 61℃  (65℃< CPU) |

Shutdown at HDD > 61c or CPU > 95c.

1. FAN Spec. : Y.S. TECH 1A3HKG 1800rpm ±10%

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| % W40 | 10 | 20 | 30 | 50 | 60 | 70 | 80 | 99 |
| Fan 1 | 1076 | 1267 | 1352 | 1508 | 1581 | 1637 | 1685 | 1723 |
| Fan 2 | 1072 | 1259 | 1352 | 1508 | 1594 | 1608 | 1684 | 1713 |
| Fan 3 | 1079 | 1270 | 1343 | 1497 | 1567 | 1590 | 1639 | 1665 |
| Avg. | 1076 | 1265 | 1349 | 1504 | 1581 | 1612 | 1669 | 1700 |
| +10% | 1183 | 1392 | 1484 | 1655 | 1739 | 1773 | 1836 | 1870 |
| -10% | 968 | 1139 | 1214 | 1354 | 1423 | 1451 | 1502 | 1530 |

1. Test result

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ambient Temp** | **HDD Temp (max)** | **System Temp (max)** | **FAN Level (max)** | **Condition** |
| **25℃** | 40 | 40 | 10%40hz(1076RPM) | thermal script |
| **40℃** | 53 | 55 | 50%40hz(1504RPM) | thermal script |

<?xml version="1.0" encoding="UTF-8"?>

<scemd>

<fan\_config hibernation\_speed="UNKNOWN" type="DUAL\_MODE\_HIGH" threshold="6" period="20">

<disk\_temperature action="NONE" fan\_speed="10%40hz">0</disk\_temperature>

<disk\_temperature action="NONE" fan\_speed="20%40hz">40</disk\_temperature>

<disk\_temperature action="NONE" fan\_speed="50%40hz">46</disk\_temperature>

<disk\_temperature action="NONE" fan\_speed="70%40hz">50</disk\_temperature>

<disk\_temperature action="NONE" fan\_speed="99%40hz">53</disk\_temperature>

<disk\_temperature action="SHUTDOWN" fan\_speed="99%40hz">61</disk\_temperature>

<cpu\_temperature action="NONE" fan\_speed="10%40hz ">0</cpu\_temperature>

<cpu\_temperature action="NONE" fan\_speed="50%40hz ">55</cpu\_temperature>

<cpu\_temperature action="NONE" fan\_speed="99%40hz">65</cpu\_temperature>

<cpu\_temperature action="SHUTDOWN" fan\_speed="99%40hz">95</cpu\_temperature>

</fan\_config>

<fan\_config hibernation\_speed="UNKNOWN" type="DUAL\_MODE\_LOW" threshold="6" period="20">

<disk\_temperature action="NONE" fan\_speed="10%40hz">0</disk\_temperature>

<disk\_temperature action="NONE" fan\_speed="20%40hz">46</disk\_temperature>

<disk\_temperature action="NONE" fan\_speed="50%40hz">52</disk\_temperature>

<disk\_temperature action="NONE" fan\_speed="70%40hz">55</disk\_temperature>

<disk\_temperature action="NONE" fan\_speed="99%40hz">58</disk\_temperature>

<disk\_temperature action="SHUTDOWN" fan\_speed="99%40hz">61</disk\_temperature>

<cpu\_temperature action="NONE" fan\_speed="10%40hz">0</cpu\_temperature>

<cpu\_temperature action="NONE" fan\_speed="50%40hz">60</cpu\_temperature>

<cpu\_temperature action="NONE" fan\_speed="99%40hz">70</cpu\_temperature>

<cpu\_temperature action="SHUTDOWN" fan\_speed="99%40hz">95</cpu\_temperature>

</fan\_config>

</scemd>

**25****℃**

============================================================

Model : synology\_rtd1296\_ds218play

Version : 4.4.15+ #15062

HDD Model : ST6000NM0024-1HT17Z\*2

eth status : 1000

ffmpeg : 4 process running

Start time : Mon Apr 24 15:56:47 CST 2017

============================================================

Min CPU Smart Host X540\_status Thermal CPU(%) HDD(%) eth FAN

0 55 26 26 N/A 51 97 PASS current\_speed 10%40hz table:<disk\_temperature>

5 40 30 30 N/A 100 95 PASS current\_speed 10%40hz table:<disk\_temperature>

10 40 33 33 N/A 96 89 PASS current\_speed 10%40hz table:<disk\_temperature>

15 40 35 35 N/A 92 94 PASS current\_speed 10%40hz table:<disk\_temperature>

20 40 37 37 N/A 94 96 PASS current\_speed 10%40hz table:<disk\_temperature>

25 40 38 38 N/A 94 100 PASS current\_speed 10%40hz table:<disk\_temperature>

30 40 38 38 N/A 83 78 PASS current\_speed 10%40hz table:<disk\_temperature>

35 40 39 39 N/A 97 97 PASS current\_speed 10%40hz table:<disk\_temperature>

40 40 39 39 N/A 99 100 PASS current\_speed 10%40hz table:<disk\_temperature>

45 40 40 39 N/A 85 93 PASS current\_speed 10%40hz table:<disk\_temperature>

50 40 40 40 N/A 95 97 PASS current\_speed 10%40hz table:<disk\_temperature>

55 40 40 40 N/A 95 98 PASS current\_speed 10%40hz table:<disk\_temperature>

60 40 40 40 N/A 96 98 PASS current\_speed 10%40hz table:<disk\_temperature>

65 40 40 40 N/A 90 96 PASS current\_speed 10%40hz table:<disk\_temperature>

70 40 40 40 N/A 96 97 PASS current\_speed 10%40hz table:<disk\_temperature>

75 40 40 40 N/A 93 99 PASS current\_speed 10%40hz table:<disk\_temperature>

80 40 40 40 N/A 84 93 PASS current\_speed 10%40hz table:<disk\_temperature>

85 40 40 40 N/A 98 97 PASS current\_speed 10%40hz table:<disk\_temperature>

90 40 40 40 N/A 100 99 PASS current\_speed 10%40hz table:<disk\_temperature>

95 40 40 40 N/A 74 98 PASS current\_speed 10%40hz table:<disk\_temperature>

100 40 40 40 N/A 99 97 PASS current\_speed 10%40hz table:<disk\_temperature>

105 40 40 40 N/A 97 98 PASS current\_speed 10%40hz table:<disk\_temperature>

110 40 40 40 N/A 92 97 PASS current\_speed 10%40hz table:<disk\_temperature>

115 40 40 40 N/A 95 96 PASS current\_speed 10%40hz table:<disk\_temperature>

120 40 40 40 N/A 96 97 PASS current\_speed 10%40hz table:<disk\_temperature>

============================================================

Model : synology\_rtd1296\_ds218play

Version : 4.4.15+ #15062

HDD Model : ST6000NM0024-1HT17Z\*2

Start time : Mon Apr 24 15:56:47 CST 2017

============================================================

Min CPU MAX sda sdb

0 55 26 26 26

5 40 30 29 30

10 40 33 31 33

15 40 35 33 35

20 40 37 34 37

25 40 38 34 38

30 40 38 35 38

35 40 39 35 39

40 40 39 35 39

45 40 40 35 40

50 40 40 36 40

55 40 40 36 40

60 40 40 36 40

65 40 40 36 40

70 40 40 36 40

75 40 40 36 40

80 40 40 36 40

85 40 40 36 40

90 40 40 36 40

95 40 40 36 40

100 40 40 36 40

105 40 40 36 40

110 40 40 36 40

115 40 40 36 40

120 40 40 36 40

**40℃**

Model : synology\_rtd1296\_ds218play

Version : 4.4.15+ #15062

HDD Model : ST6000NM0024-1HT17Z\*2

eth status : 1000

ffmpeg : 4 process running

Start time : Fri Apr 21 18:35:16 CST 2017

============================================================

Min CPU Smart Host X540\_status Thermal CPU(%) HDD(%) eth FAN

0 40 37 37 N/A 72 95 PASS current\_speed 10%40hz table:<disk\_temperature>

5 52 42 42 N/A 80 96 PASS current\_speed 10%40hz table:<disk\_temperature>

10 55 46 46 N/A 96 99 PASS current\_speed 10%40hz table:<disk\_temperature>

15 55 49 49 N/A 98 97 PASS current\_speed 30%40hz table:<disk\_temperature>

20 55 51 50 N/A 97 97 PASS current\_speed 30%40hz table:<disk\_temperature>

25 55 52 52 N/A 98 98 PASS current\_speed 30%40hz table:<disk\_temperature>

30 50 52 52 N/A 82 96 PASS current\_speed 50%40hz table:<disk\_temperature>

35 54 53 53 N/A 91 98 PASS current\_speed 50%40hz table:<disk\_temperature>

40 55 53 53 N/A 97 99 PASS current\_speed 50%40hz table:<disk\_temperature>

45 55 53 53 N/A 93 94 PASS current\_speed 50%40hz table:<disk\_temperature>

50 55 53 53 N/A 94 95 PASS current\_speed 50%40hz table:<disk\_temperature>

55 55 53 53 N/A 89 96 PASS current\_speed 50%40hz table:<disk\_temperature>

60 55 53 53 N/A 89 97 PASS current\_speed 50%40hz table:<disk\_temperature>

65 53 53 53 N/A 92 95 PASS current\_speed 50%40hz table:<disk\_temperature>

70 50 53 53 N/A 100 96 PASS current\_speed 50%40hz table:<disk\_temperature>

75 54 53 53 N/A 85 100 PASS current\_speed 50%40hz table:<disk\_temperature>

80 55 53 53 N/A 97 97 PASS current\_speed 50%40hz table:<disk\_temperature>

85 54 53 53 N/A 66 96 PASS current\_speed 50%40hz table:<disk\_temperature>

90 55 53 53 N/A 82 99 PASS current\_speed 50%40hz table:<disk\_temperature>

95 54 53 53 N/A 99 100 PASS current\_speed 50%40hz table:<disk\_temperature>

100 55 53 53 N/A 97 97 PASS current\_speed 50%40hz table:<disk\_temperature>

105 54 53 53 N/A 97 100 PASS current\_speed 50%40hz table:<disk\_temperature>

110 53 53 53 N/A 90 99 PASS current\_speed 50%40hz table:<disk\_temperature>

115 55 53 53 N/A 87 99 PASS current\_speed 50%40hz table:<disk\_temperature>

120 55 53 53 N/A 98 98 PASS current\_speed 50%40hz table:<disk\_temperature>

125 55 53 53 N/A 91 98 PASS current\_speed 50%40hz table:<disk\_temperature>

130 55 53 53 N/A 80 97 PASS current\_speed 50%40hz table:<disk\_temperature>

135 53 53 53 N/A 84 96 PASS current\_speed 50%40hz table:<disk\_temperature>

140 54 53 53 N/A 87 99 PASS current\_speed 50%40hz table:<disk\_temperature>

145 55 53 53 N/A 99 95 PASS current\_speed 50%40hz table:<disk\_temperature>

150 54 53 53 N/A 98 97 PASS current\_speed 50%40hz table:<disk\_temperature>

155 55 53 53 N/A 99 97 PASS current\_speed 50%40hz table:<disk\_temperature>

160 54 53 53 N/A 98 95 PASS current\_speed 50%40hz table:<disk\_temperature>

165 55 53 53 N/A 90 95 PASS current\_speed 50%40hz table:<disk\_temperature>

170 55 53 53 N/A 81 93 PASS current\_speed 50%40hz table:<disk\_temperature>

175 55 53 53 N/A 88 94 PASS current\_speed 50%40hz table:<disk\_temperature>

180 54 53 53 N/A 90 88 PASS current\_speed 50%40hz table:<disk\_temperature>

185 55 53 53 N/A 96 91 PASS current\_speed 50%40hz table:<disk\_temperature>

190 55 53 53 N/A 81 97 PASS current\_speed 50%40hz table:<disk\_temperature>

195 55 53 53 N/A 99 100 PASS current\_speed 50%40hz table:<disk\_temperature>

200 54 53 53 N/A 94 97 PASS current\_speed 50%40hz table:<disk\_temperature>

205 53 53 53 N/A 95 98 PASS current\_speed 50%40hz table:<disk\_temperature>

============================================================

Model : synology\_rtd1296\_ds218play

Version : 4.4.15+ #15062

HDD Model : ST6000NM0024-1HT17Z\*2

Start time : Fri Apr 21 18:35:16 CST 2017

============================================================

Min CPU MAX sda sdb

0 40 37 36 37

5 52 42 41 42

10 55 46 44 46

15 55 49 47 49

20 55 51 48 51

25 55 52 49 52

30 50 52 49 52

35 54 53 49 53

40 55 53 49 53

45 55 53 49 53

50 55 53 49 53

55 55 53 49 53

60 55 53 49 53

65 53 53 49 53

70 50 53 49 53

75 54 53 49 53

80 55 53 49 53

85 54 53 49 53

90 55 53 49 53

95 54 53 49 53

100 55 53 49 53

105 54 53 49 53

110 53 53 49 53

115 55 53 49 53

120 55 53 49 53

125 55 53 49 53

130 55 53 49 53

135 53 53 49 53

140 54 53 49 53

145 55 53 49 53

150 54 53 49 53

155 55 53 49 53

160 54 53 49 53

165 55 53 49 53

170 55 53 49 53

175 55 53 49 53

180 54 53 49 53

185 55 53 49 53

190 55 53 49 53

195 55 53 49 53

200 54 53 49 53

205 53 53 49 53