

Advantech NID product FAQ

How to change SKY-8100 FAN Speed

Applicable model list	SKY-8100
Model name version	N/A
BIOS Version	N/A

Description:

There are 4 FAN modules in SKY-8100, a module contains 2 FAN units (8 units in total). User is able to control FAN speed by sending IPMI command to BMC.

The controllable FAN level is from 35 to 100 as following table

FAN level	Speed on FAN units
35	Module FAN1/3/5/7 : 7500 rpm Module FAN2/4/6/8 : 12000 rpm
100	Module FAN1/3/5/7 : 12000 rpm Module FAN2/4/6/8 : 18500 rpm

Commands for FAN Speed Control:

Read FAN Speed : `ipmitool raw 0x2c 0x16 0x00 0x00`

Response : 00 <unit1 LV> <unit2 LV> <Smart FAN status>

Set FAN Speed: `ipmitool raw 0x2c 0x15 0x00 0x00 <Level>`

Enable Smart FAN: `ipmitool raw 0x2c 0x15 0x00 0x00 0xff`

When manually set FAN speed, BMC will temporary disable smart FAN function, this will be recovered after power cycle whole system or manual set it back.

By read FAN speed command, the last byte of response means smart FAN status.

01 = smart FAN was Enabled

00 = smart FAN was Disabled

Example:

Set level to 35:

```
[root@sky-8100 ~]# ipmitool raw 0x2c 0x15 0x00 0x00 35
```

Read FAN setting

```
[root@sky-8100 ~]# ipmitool raw 0x2c 0x16 0x00 0x00  
00 23 22 00
```

Set level to 50:

```
[root@sky-8100 ~]# ipmitool raw 0x2c 0x15 0x00 0x00 50
```

Read FAN setting

```
[root@sky-8100 ~]# ipmitool raw 0x2c 0x16 0x00 0x00  
00 32 32 00
```

Set level to 75:

```
[root@sky-8100 ~]# ipmitool raw 0x2c 0x15 0x00 0x00 75
```

Read FAN setting

```
[root@sky-8100 ~]# ipmitool raw 0x2c 0x16 0x00 0x00  
00 4b 4b 00
```

Set level to 90:

```
[root@sky-8100 ~]# ipmitool raw 0x2c 0x15 0x00 0x00 90
```

Read FAN setting

```
[root@sky-8100 ~]# ipmitool raw 0x2c 0x16 0x00 0x00  
00 5a 59 00
```

Set level to Range 100:

```
[root@sky-8100 ~]# ipmitool raw 0x2c 0x15 0x00 0x00 100
```

Read FAN setting

```
[root@sky-8100 ~]# ipmitool raw 0x2c 0x16 0x00 0x00  
00 64 63 00
```

Enable Smart FAN (Or system power cycle)

```
[root@sky-8100 ~]# ipmitool raw 0x2c 0x15 0x00 0x00 0xff
```

Read FAN setting

```
[root@sky-8100 ~]# ipmitool raw 0x2c 0x16 0x00 0x00  
00 ff 22 01
```