Login：

1, Use the Windows Command Prompt，

2, telnet 192.168.1.200 or the current IP address

3, Username: root

4, Password: fs19681086

***** Command List *****

1, Request General information:

NMC B_?

Example:

[FAST@\h \W]# NMC B_?

Show NMC Info:

===== NMC Chassis Info =====

Name	Power1Status	Power2Status	FanSwitch	FanStatus	DateTime
OTNS4443	open	close	open	close	2021-07-15 08:28:13

===== NMC Basic Info =====

Type	Slot	SoftVer	HardVer	MadeDate	DevType	SeqNum
NMC	00	1.08.15	1.02.01	2021-01-01	OTNS-M4	1234567890AB

===== NMC Payload Info =====

Name	Payload(%)	PayloadThr(%)	Status
CPU	2	80	normal
Memory	9	80	normal

===== NMC Database Info =====

Name	AutoBackup(day)	AutoRecord(hor)	Capacity(row)
DBM	1	1	200

===== NMC Network Info =====

Version	Switch	NetAddress	Netmask	Gateway	MacAddress
IPv4	open	192.168.001.200	255.255.255.000	192.168.001.001	70-b3-d5-46-04-29
IPv6	close	fe80:0:0:0:1034:56	ff:fe78:9126/64	fe80:0:0:0:0:0:0:1	70-b3-d5-46-04-29

===== NMC SNMP Info =====

Version	ReadCom	WriteCom	AuthPassword	PrivPassword	TrapIP	TrapIP2
IPv4	public	private	123456789	123456789	127.000.000.001	127.000.000.001

IPv6 public private 123456789 123456789 0:0:0:0:0:0:0:1

===== NMC RemoteLog Info =====

Version Switch NetAddress

IPv4 open 127.000.000.001

IPv6 close 0:0:0:0:0:0:0:1

2, Fan Operation:

2.1 Turn on the Fan

NMC FNC_1

2.2 Turn off the Fan

NMC FNC_0

Return Success or Fail

Example:

[FAST@\h \W]# NMC FNC_1

Send: FNC_1

Return: Operation Success

[FAST@\h \W]#

[FAST@\h \W]# NMC FNC_0

Send: FNC_0

Return: Operation Success

[FAST@\h \W]#

3, Set System Time

NMC TIME_2021-07-05-14-02-02

Example:

[FAST@\h \W]# NMC TIME_2021-07-05-14-02-02

Send: TIME_2021-07-05-14-02-02

Return: Operation Success

[FAST@\h \W]#

4, Set the Payload

4.1 CPU payload

NMC CPULIM_xx

Note: xx is the payload of CPU, from 1~99

Example: Set the CPU payload to 80%

[FAST@\h \W]# NMC CPULIM_80

Send: CPULIM_80

Return: Operation Success

[FAST@\h \W]#

4.2 Memory Payload

NMC MEMLIM_xx

Note: xx is the payload of system memory, from 1~99

Example: Set the memory payload to 80%

[FAST@\h \W]# NMC MEMLIM_80

Send: MEMLIM_80

Return: Operation Success

[FAST@\h \W]#

5, Network Operations

5.1 IP address

NMC IP_192.168.1.200

Example:

[FAST@\h \W]# NMC IP_192.168.1.200

Send: IP_192.168.1.200

Return: Operation Success

[FAST@\h \W]#

5.2 Subnet Mask

NMC MSK_255.255.255.000

Example:

[FAST@\h \W]# NMC MSK_255.255.255.000

Send: MSK_255.255.255.000

Return: Operation Success

[FAST@\h \W]#

5.3 Gateway

NMC GW_192.168.1.1

Example:

[FAST@\h \W]# NMC GW_192.168.1.1

Send: GW_192.168.1.1

Return: Operation Success

[FAST@\h \W]#

6, Card information

CARD -c xx B_?

xx is the card slot number, 2~16

Example:

[FAST@\h \W]# CARD -c 16 B_?

Show Card Info:

===== CARD Monitor Info =====

Chan Mode Wave(nm) CurrPower(dBm) ConfigPower(dBm) CurrAtten(dB) ConfigAtten(dB) OutputThr(dBm) OutputState

1	auto	1550	-50.00	-63.15	36.00	36.00	-69.00	normal
2	auto	1550	-50.00	-63.10	40.00	40.00	-19.00	alarm
3	auto	1550	-50.00	-63.10	40.00	40.00	-19.00	alarm
4	auto	1550	-50.00	-63.15	0.00	0.00	-19.00	alarm
5	auto	1550	-50.00	-63.10	0.00	0.00	-19.00	alarm
6	man	1550	-50.00	-63.13	9.00	9.00	-19.00	alarm
7	auto	1550	-50.00	-63.13	0.00	0.00	-18.00	alarm
8	man	1550	-50.00	-63.18	0.00	0.00	-70.00	normal

===== CARD Basic Info =====

Type	Slot	SoftVer	HardVer	MadeDate	DevType	SeqNum
VOA8	16	1.05.01	1.01.02	2021-03-16	VOA8-2table	123456789012

7, VOA Operations

7.1 Single Channel working mode setup

CARD -c xx My_z

Note:

xx is the slot number of the card, from 2~16

y is the Channel number on the card, from 1~8

z is the mode, 1 is auto mode, 0 is manual mode

Example of setting the channel 1 on Card 16 to auto mode:

[FAST@\h \W]# CARD -c 16 M1_1

Send: M1_1

Return: Operation Success

[FAST@\h \W]#

Example of setting the channel 1 on Card 16 to manual mode:

[FAST@\h \W]# CARD -c 16 M1_0

Send: M1_0

Return: Operation Success

[FAST@\h \W]#

7.2 All Channels working mode setup

CARD -c xx MTOT_z_z_z_z_z_z_z_z

Note:

xx is the slot number of the card, from 2~16

z is the mode, 1 is auto mode, 0 is manual mode

Example to set the channel 1 and 2 on card 16 to auto mode, the rest channels are set to manual mode:

[FAST@\h \W]# CARD -c 16 MTOT_1_1_0_0_0_0_0_0

Send: MTOT_1_1_0_0_0_0_0_0

Return: Operation Success

[FAST@\h \W]#

7.3 Single Channel wavelength setup

CARD -c xx Wy_z

Note:

xx is the slot number of the card, from 2~16

y is the Channel number on the card, from 1~8

z is the wavelength code, 1 is 1550nm, 0 is 1310nm

Example of setting the wavelength of channel 1 on card 16 to 1550nm:

[FAST@\h \W]# CARD -c 16 W1_1

Send: W1_1

Return: Operation Success

[FAST@\h \W]#

Example of setting the wavelength of channel 1 on card 16 to 1310nm:

[FAST@\h \W]# CARD -c 16 W1_0

Send: W1_0

Return: Operation Success

[FAST@\h \W]#

7.4 All Channels wavelength setup

CARD -c xx WTOT_z_z_z_z_z_z_z_z

Note:

xx is the slot number of the card, from 2~16

z is the wavelength code, 1 is 1550nm, 0 is 1310nm

Example of setting the channel 1 and 2 on card 16 to 1550mm, the rest channels are set to 1310nm:

[FAST@\h \W]# CARD -c 16 WTOT_1_1_0_0_0_0_0_0

Send: WTOT_1_1_0_0_0_0_0_0

Return: Operation Success

[FAST@\h \W]#

7.5 Single Channel Output Power setup

CARD -c xx Py_z

Note:

xx is the slot number of the card, from 2~16

y is the Channel number on the card, from 1~8

z is the power in dBm

Example of setting the output power of Channel 1 on card 16 to 2dBm:

[FAST@\h \W]# CARD -c 16 P1_2

Send: P1_1

Return: Operation Success

Example of setting the output power of Channel 1 on card 16 to -1dBm:

[FAST@\h \W]#

[FAST@\h \W]# CARD -c 16 P1_-1

Send: P1_-1

Return: Operation Success

[FAST@\h \W]#

7.6 All Channels Output Power setup

CARD -c xx PTOT_z_z_z_z_z_z_z_z

Note:

xx is the slot number of the card, from 2~16

z is the power in dBm

Example of setting the output power of Channel 1 and 2 on card 16 to 1dBm, the rest channels to 2dBm:

[FAST@\h \W]# CARD -c 16 PTOT_1_1_2_2_2_2_2_2

Send: PTOT_1_1_2_2_2_2_2_2

Return: Operation Success

[FAST@\h \W]#

7.7 Single Channel attenuation setup

CARD -c xx Ay_z

Note:

xx is the slot number of the card, from 2~16

y is the Channel number on the card, from 1~8

z is the attenuation in dB

Example of setting the output power of Channel 1 on card 16 to 10dB:

[FAST@\h \W]# CARD -c 16 A1_10

Send: A1_10

Return: Operation Success

[FAST@\h \W]#

[FAST@\h \W]# CARD -c 16 A1_20

Send: A1_20

Return: Operation Success

[FAST@\h \W]#

7.8 All Channels attenuation setup

CARD -c xx ATOT_z_z_z_z_z_z_z_z

Note:

xx is the slot number of the card, from 2~16

z is the attenuation in dB

Example of setting the output power of Channel 1 and 2 on card 16 to 1dB, the rest channels to 2dB:

[FAST@\h \W]# CARD -c 16 CARD -c 16 ATOT_1_1_2_2_2_2_2_2

Send: ATOT_1_1_2_2_2_2_2_2

Return: Operation Success

[FAST@\h \W]#

7.9 Single Channel alarm level setup

CARD -c xx RXy_z

Note:

xx is the slot number of the card, from 2~16

y is the Channel number on the card, from 1~8

z is the power level in dBm

Example of setting the alarm level of channel 1 on card 16 to -20dBm

[FAST@\h \W]# CARD -c 16 RX1_-20

Send: RX1_-20

Return: Operation Success

[FAST@\h \W]#

Example of setting the alarm level of channel 1 on card 16 to -21dBm

[FAST@\h \W]# CARD -c 16 RX1_-21

Send: RX1_-21

Return: Operation Success

[FAST@\h \W]#

7.10 All Channels alarm level setup

CARD -c xx RXTOT_z_z_z_z_z_z_z_z

Note:

xx is the slot number of the card, from 2~16

z is the power level in dBm

Example of setting the alarm level of Channel 1 and 2 on card 16 to -10dB, the rest channels to -20dB:

[FAST@\h \W]# CARD -c 16 RXTOT_-10_-10_-20_-20_-20_-20_-20_-20

Send: RXTOT_-10_-10_-20_-20_-20_-20_-20_-20

Return: Operation Success

[FAST@\h \W]#