



**Thecus N5200B PRO**  
**N5200BR PRO**

Thecus Corporation (Thecus Technology Corp.)  
Thecus Corporation (Thecus Technology Corp.)  
Microsoft, Windows, Windows (Microsoft  
Apple, iTunes, Apple OS X (Apple  
Computers, Inc.)

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가

Corporation)

가  
(Thecus Technology

: Thecus N5200PRO  
: 1.1  
: 2008 2

(Thecus Technology Corporation) Thecus N5200PRO

Corporation)

(Thecus Technology

(Thecus Technology Corporation)



N5200PRO



N5200PRO



N5200PRO

가 0°C 40°C

가 20% – 85%  
N5200PRO

가



N5200PRO

(AC 100V ~ 240V, 50/60 Hz, 3A)

N5200PRO

가



N5200PRO



N5200PRO



N5200PRO



N5200PRO



N5200PRO



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	.....	<b>2</b>
	.....	<b>2</b>
	.....	<b>3</b>
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	.....	<b>8</b>
	.....	<b>8</b>
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# 1 :

Thecus N5200PRO IP

. Thecus N5200PRO

– RAID 5 RAID 6 RAID  
가 가 1  
N5200PRO  
N5200PRO . N5200PRO  
N5200PRO

Windows(SMB/CIFS), UNIX/Linux, Apple OS X  
가 . N5200PRO GUI

. N5200PRO

N5200PRO IP  
(Network Attached Storage: NAS)  
가

6 : N5200PRO > [WebDisk](#)

## FTP

FTP 가 N5200PRO ( ) FTP 가

FTP 5 : 가 > [FTP](#)

N5200PRO

N5200PRO 6 : N5200PRO >

N5200PRO IPP PC

5 : 가 >

## RAID

N5200PRO RAID 0 RAID RAID 5  
RAID 0 RAID 5  
N5200PRO RAID 4 : > > RAID

N5200PRO N5200PRO iSCSI LAN

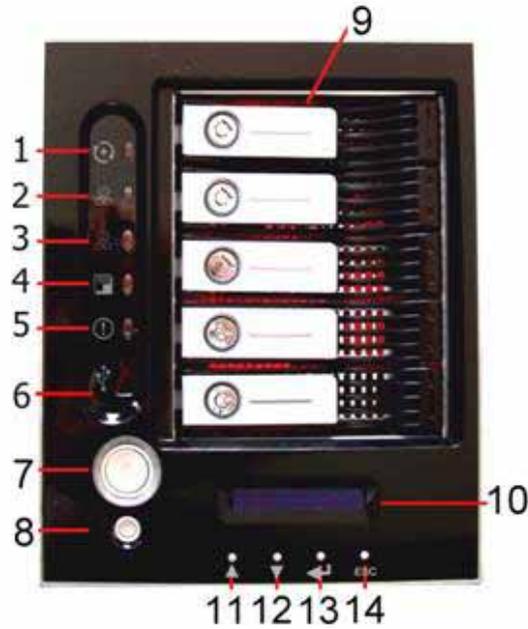
iSCSI 4 : > > > iSCSI

N5200PRO /  
(Wake-On-LAN)

> / 4 : > >

N5200PRO :

- QIG
- CD
- 
- USB 2.0
-



Thecus N5200PRO Front Panel Components	
1.DOM LED	• : ;
2.WAN LED	• : ;
3.LAN LED	• : ;
4.USB Copy LED (USB LED)	• : USB
5.Busy LED (LED)	• : RAID
6.USB Port (USB)	• USB , USB , USB * USB USB 2.0 : USB <a href="http://esupport.thecus.com/support">http://esupport.thecus.com/support</a>
7.Power Button ( )	• N5200PRO • : 가 • : eSATA 가
8.Reset Button ( )	• N5200PRO • 5 IP 가
9.HDD Trays (HDD)	• 3.5" SATA HDD • 가 가
10.LCD Display (LCD)	• • , WAN/LAN IP , RAID ,
11.Up Button ( )	• LCD
12.Down Button ( )	• LCD
13.Enter Button ↵ ( ↵)	• LCD 가
14.Escape Button ( 가 ESC)	• LCD 가

N5200PRO

LED 가

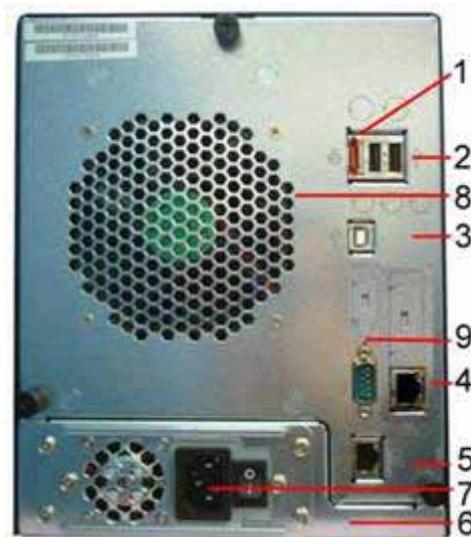


N5200PRO	
Lock ( )	•
Latch ( )	•
Hdd Power LED (HDD LED)	• <b>Solid Blue</b> ( ): 가
HDD Access/Error LED (HDD / LED)	• <b>Blinking green</b> ( ):

**(N5200B PRO)**

Thecus N5200B PRO

가



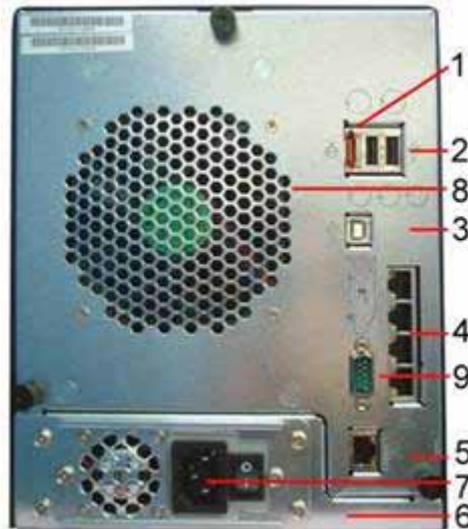
N5200B PRO	
1.eSATA Port (eSATA )	• eSATA
2. USB Port (USB )	• USB , USB USB USB 2.0
3. USB Port(target) (USB ( ))	• N5200PRO PC
4. LAN Port (LAN )	• LAN
5. WAN Port (WAN )	• WAN
6. Power Switch ( )	•
7. Power	•

Connector ( )	
8. System Fan ( )	•
9. Serial Port ( )	• UPS

**(N5200BR PRO)**

Thecus N5200BR PRO

가



N5200BR PRO	
1. eSATA Port (eSATA )	• eSATA
2. USB Port (USB )	• USB , USB USB USB 2.0
3. USB Port(target) (USB ( ))	• N5200PRO PC
4. 4-port Gigabit Switch (4- 가 )	• 4-
5. WAN Port (WAN )	• WAN
6. Power Switch ( )	•
170B7. Power Connector ( )	•
8. System Fan ( )	•
9. Serial Port ( )	• UPS

## 2 :

N5200PRO  
N5200PRO

1. **Safety Warnings ( )**
2. 가 N5200PRO
3. N5200PRO

N5200PRO 가 3.5" ATA(SATA)  
N5200PRO :

1. N5200PRO
2. SATA
3. N5200PRO
4. 가 LED 가



N5200PRO

:

1.

WAN

N5200PRO



2.



3.

N5200PRO



N5200PRO

가

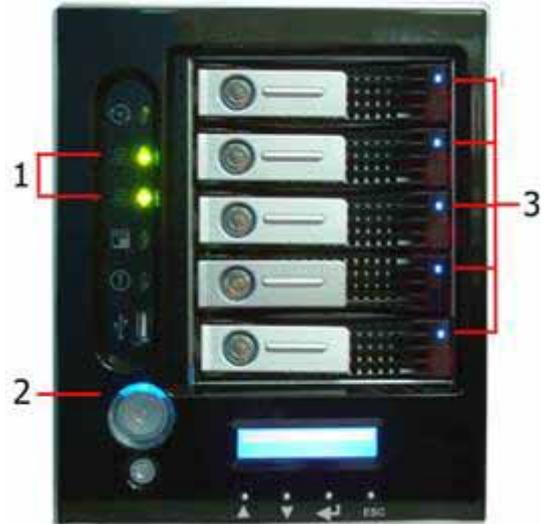
가

1. WAN LED LAN LED가 (가).

2. LED 가

3. HDD HDD LED가 (가).

4. WAN IP 가 192.168.1.100 .



가

:

1. (Busy) LED 가

가 8 :



[REDACTED] N5200PRO 가

### 3 :

가 N5200PRO  
 Wizard(Thecus ) LCD Display (LCD )  
**Thecus Setup**

#### Thecus

- Thecus Setup Wizard( ) N5200PRO  
 N5200PRO :
1. CD CD-ROM .( PC  
 .)
  2. 가 CD-ROM  
**Setup.exe**



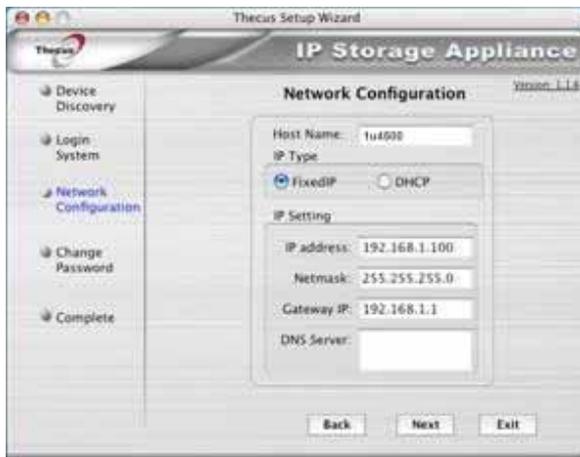
3. 가 Thecus **8 :**



4. N5200PRO
5. "admin"



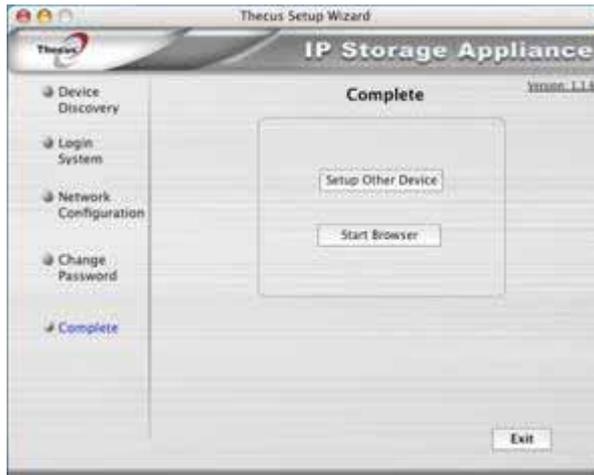
6. N5200PRO IP  
    가 DHCP                     N5200PRO IP                     가  
    IP                             DNS



7.



8.             가                     ! **Start Browser**(                     )  
    N5200PRO                     )                     **Setup Other**  
    **Device**(                     )                     N5200PRO  
    . **Exit**(                     )



Thecus Setup Wizard(Thecus ) Windows XP/2000 Mac OS X  
 Thecus Setup Wizard(Thecus ) 가

**LCD**

N5200PRO LCD LCD

**LCD**

Up( ) ( ), Down ( ) ( ), Enter ( ) (↵), Escape ( 가 ) (ESC)  
 N5200PRO

**LCD**

↵  
**ESC** 가  
 LCD 가 , **Display Mode( ) Management**  
**Mode( )**

LCD **Display Mode( )**

Host Name ( )	
WAN	WAN IP
LAN	LAN IP
245BLink Aggregation ( )	(N5200B PRO )
Disk Info ( )	
RAID	RAID
System Fan( )	
CPU Fan (CPU )	CPU
2006/06/16 12:00	

**USB**

USB

N5200PRO

USB

USB

USB

1. 가 USB USB
2. **Display Mode( ) Down Button ( ) ( )**
3. LCD "USB Copy?" (USB ?)가
4. **Enter ( ) (↵)** N5200PRO 가 USB USB
5. 가 "USBcopy"

LCD **Management Mode( )**

가 **Enter( ) (↵)** "Enter Password" ( )  
 가 LCD

LCD

LCD

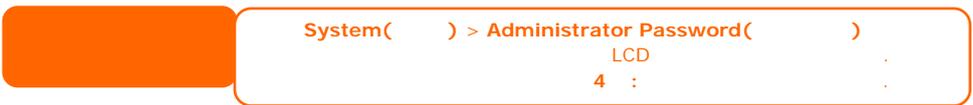
"0000"

LCD 가

가

**Management Mode( )** 가

WAN Setting(WAN )	WAN IP
LAN Setting(LAN )	LAN IP
Link Agg. Setting ( )	<b>Load Balance( ) Failover( )</b> (N5200B PRO )
Change Admin Passwd ( )	LCD
Reset to Default ( )	
Exit( )	<b>Management Mode ( ) Display Mode( )</b>



N5200PRO

N5200PRO

4 : >

1 :

N5200PRO  
Network( )

4 : >

2 : RAID

Storage( ) > RAID RAID RAID

RAID 4 : > RAID

RAID ? RAID  
C: RAID

3 :

RAID가 N5200PRO Active  
Directory(AD)

4 : >

Active Directory 4 : > >  
ADS/NT

Active Directory D: Active Directory

4 : ACL

가 N5200PRO  
(Folder Access Control Lists)

4 : >

> (ACL) 4 : >

5 :

N5200PRO 가

SMB/CIFS

(AFP)

(NFS)

**(FTP)**

#### 4 :

N5200PRO Web Administration Interface ( )  
 N5200PRO

가 N5200PRO  
 Web Administration Interface ( ) :

1. N5200PRO IP ( IP  
 http://192.168.1.100 .)



IP N5200PRO

N5200PRO IP 가 192.168.1.100 PC IP

192.168.1.x x 1 254

100

2. :  
 : admin  
 : admin

Web Administration Interface ( ) 가  
 N5200PRO

N5200PRO

Status( )	N5200PRO
Storage( )	N5200PRO

321B

Network( )	N5200PRO
Accounts( )	
System( )	N5200PRO
Language( )	

가

N5200PRO

N5200PRO

- 
- 
- 
- 
- 
- 
- 
- 
- 

Change Language( )  
 Language( )  
 N5200PRO

. Apply( )



Status( ) N5200PRO  
N5200PRO

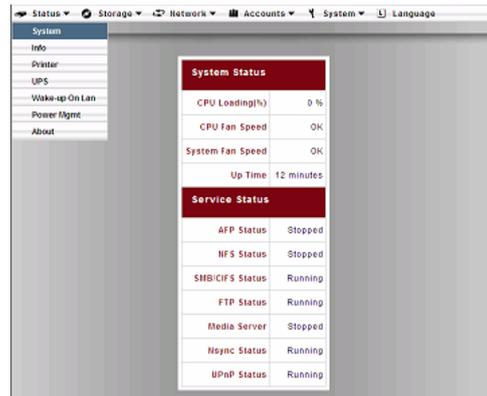
Product Information( )  
Manufacturer( ), Product No.( )  
Firmware Version( ), Up Time( )



Product Information	
Manufacturer( )	
Product No.( )	
Firmware Version ( )	
Up Time( )	

Status( ) > About( )

/  
Status( ) System( )  
System Status( )  
Service Status( )



System Status	
CPU Loading (CPU ) (%)	N5200PRO CPU
CPU Fan Speed (CPU )	CPU
System Fan Speed ( )	
Up Time( )	

375B

System Information	
AFP Status(AFP )	(AFP)
NFS Status(NFS )	
SMB/CIFS Status(SMB/CIFS )	SMB/CIFS
FTP Status(FTP )	FTP
Media Server( )	
Nsync Status(Nsync )	Nsync
UPnP Status(UPnP )	UPnP

**Status( )**      **Info( )**  
**System Information( )**  
**Apply( )**



System Description	
System Description ( )	

**Status( )**  
**Printer( )**  
**Printer Information( )**      **USB**  
**USB**



Manufacturer( )	USB
Model( )	USB
407BStatus( )	USB
Remove document from Queue ( )	가
Restart Printer service( )	가

가  
**Remove All Documents( )**  
가  
5 : 가 >

**UPS**

N5200PRO 가  
가

Status( ) **UPS**  
UPS Setting(UPS )

Apply( )



UPS	
UPS Monitoring(UPS )	UPS
Manufacturer( )	UPS
Battery Status( )	UPS
Power( )	UPS
Seconds between power failure and first notification( )	
Seconds between subsequent power failure notifications( )	
Shutdown the system when the battery charge is less than( )	UPS
Apply( )	<b>Apply( )</b>

UPS

**E: UPS**

## WOL(Wake-Up On Lan)

N5200PRO WAN

Status( ) *WOL*  
 Wake-up On Lan Configuration(WOL  
 ) Enable( )  
 Disable( )



WOL	
WOL Service (WOL )	WOL Enable ( ) Disable ( )
Apply( )	<i>Apply</i> ( )

N5200PRO  
 N5200PRO가

Status( )      Power  
 Mgmt( )  
 Schedule Power On/Off(  
 / )

N5200PRO  
 Enable Schedule  
 Power On/Off( /  
 )



Apply( )

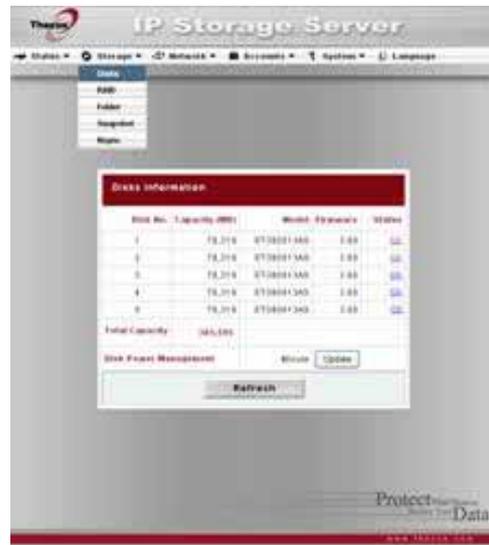
- : : 8:00; : 16:00  
 8:00 16:00

- : : 8:00  
 8:00

- : : 8:00; : 16:00  
 8:00 16:00

Storage Menu( ) N5200PRO  
RAID

Storage( ) Disks( )  
Disks Information( )  
SATA SATA 가



468B	
Disk No.( )	
Capacity( )	SATA
Model( )	SATA
471BFirmware( )	SATA
Status( )	OK( ), Warning( ) Failed( ) 가 가
Total Capacity( )	SATA
Disk Power Management ( )	

Status( ) Warning( )가 가

**S.M.A.R.T.**

Disks Information( )  
가 Status( )  
OK( ) Warning( )  
S.M.A.R.T  
Information(S.M.A.R.T )



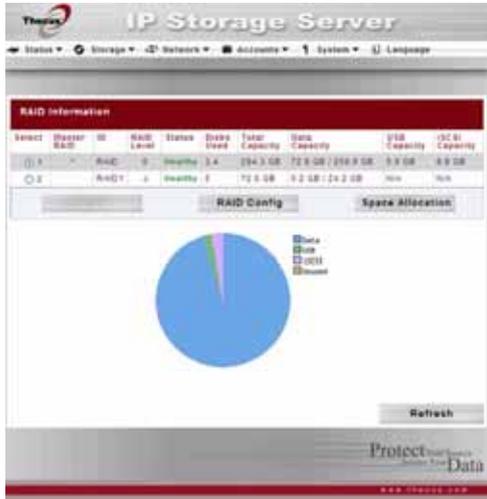
S.M.A.R.T.	
Tray Number ( )	가
Model( )	
Power ON Hours ( )	( )
Temperature Celsius ( )	
Reallocated Sector Count ( )	가 / / 가 " " " " " " " - 가 / 가 (10%)
Current Pending Sector ( )	( ) 가 가 ( ) 0
Raw Read Error Rate ( )	/ 가
Seek Error Rate ( )	가 , 가 가 가 가 가
Back( )	<b>Back( ) Disks Information( )</b>

가 "Warning"( ) 가 0

**RAID**

Storage( ) RAID  
RAID List(RAID )

N5200 RAID  
RAID , USB ,  
iSCSI RAID  
가



RAID Configuration(RAID ) RAID Config(RAID ) RAID

RAID	
Select( )	RAID
Master RAID( RAID)	RAID RAID
ID	RAID ID : RAID ID
RAID	RAID
Status( )	RAID <i>Healthy( ), Degraded( )</i> <i>Damaged( )</i> 가
Disks Used( )	RAID
Total Capacity( )	RAID
Data Capacity( )	
USB Capacity(USB )	USB
iSCSI Capacity(iSCSI )	iSCSI
RAID Config(RAID )	RAID
Space Allocation ( )	, USB , iSCSI

**RAID**

RAID List(RAID ) RAID Config(RAID ) RAID Configuration(RAID ) RAID

RAID

RAID

C: RAID



**RAID**

JBOD, RAID 0, RAID 1, RAID 5, RAID 6 RAID 10

. RAID

RAID

RAID	
JBOD	JBOD RAID 가 HDD
RAID 0	0 2 RAID
RAID 1	RAID 1 2
RAID 5	RAID 5 3 가 RAID 5

RAID 6	가 RAID 6 4 RAID
RAID 10	RAID 10 RAID 1 RAID 1 RAID 0 RAID 10 4 RAID 10



**RAID**

**RAID Settings(RAID )**

가 RAID 가

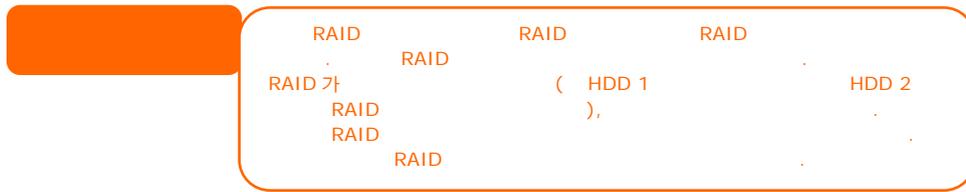
RAID	
RAID	가
Master RAID ( RAID)	RAID
Disk No.( )	
Capacity( ) (MB)	
Model( )	
Status( )	
Member( )	가 RAID 가
Spare( )	가 RAID
Stripe Size ( )	64K
Used Percentage( )	RAID
Apply( )	RAID
Remove( )	RAID , iSCSI, USB 가
Back( )	
Expand( )	RAID
Migration( )	RAID

**RAID**

RAID :

1. RAID List(RAID ) **New( )**
2. RAID Configuration(RAID ) RAID JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10 C: RAID
3. RAID ID

4. RAID RAID Master RAID( RAID)



5. RAID " "

6. - 64K

7. USB, iSCSI

8. Apply( ) RAID



RAID 1, RAID 5, RAID 6 RAID 10 RAID가  
가 7 : > 가

**RAID**

RAID 1, RAID 5, RAID 6 RAID 10

1. RAID 가

2. RAID

3. Storage( ) > RAID 가 RAID List(RAID )

4. RAID List(RAID ) RAID  
RAID Config(RAID ) RAID Configuration(RAID )

5. RAID Configuration(RAID ) Expand( )

**RAID**

RAID

RAID

RAID 0, RAID 1

RAID 5

1. RAID Configuration(RAID )  
Migrate RAID(RAID )

2. 가 RAID

OK( )

3. RAID



가 RAID



→ ↓	RAID 0	RAID 5
RAID 0	[RAID 0] HDDx2 -> [RAID 0] HDDx3 [RAID 0] HDDx2 -> [RAID 0] HDDx4 [RAID 0] HDDx2 -> [RAID 0] HDDx5 [RAID 0] HDDx3 -> [RAID 0] HDDx4 [RAID 0] HDDx3 -> [RAID 0] HDDx5 [RAID 0] HDDx4 -> [RAID 0] HDDx5	[RAID 0] HDDx2 -> [RAID 5] HDDx3 [RAID 0] HDDx2 -> [RAID 5] HDDx4 [RAID 0] HDDx2 -> [RAID 5] HDDx5 [RAID 0] HDDx3 -> [RAID 5] HDDx4 [RAID 0] HDDx3 -> [RAID 5] HDDx5 [RAID 0] HDDx4 -> [RAID 5] HDDx5
RAID 1	[RAID 1] HDDx2 -> [RAID 0] HDDx2 [RAID 1] HDDx2 -> [RAID 0] HDDx3 [RAID 1] HDDx2 -> [RAID 0] HDDx4 [RAID 1] HDDx2 -> [RAID 0] HDDx5	[RAID 1] HDDx2 -> [RAID 5] HDDx3 [RAID 1] HDDx2 -> [RAID 5] HDDx4 [RAID 1] HDDx2 -> [RAID 5] HDDx5
RAID 5	X	[RAID 5] HDDx3 -> [RAID 5] HDDx4 [RAID 5] HDDx3 -> [RAID 5] HDDx5 [RAID 5] HDDx4 -> [RAID 5] HDDx5

**RAID**

RAID

1. RAID List(RAID )  
**RAID Config(RAID )**      RAID  
**RAID Configuration(RAID )**

2. RAID Configuration(RAID )      **Remove RAID(RAID )**

3. "Yes" ( )      "Remove RAID" (RAID )



USB iSCSI  
**Storage( ) RAID RAID List(RAID**  
**Space Allocation( ) RAID Information(RAID )**  
**Volume Allocation List( )**

RAID Target USB( USB) iSCSI  
 N5200PRO RAID 5 iSCSI

USB	
Modify( )	
Del( )	
Type( )	USB iSCSI
Name( )	
663BCapacity( )	
Target USB( USB)	USB
iSCSI Target(iSCSI )	iSCSI

### USB

RAID USB :

1. **Volume Allocation List( Target USB( USB)**

**Create Target USB Volume( USB )**



USB	
RAID ID	RAID ID
Unused( )	RAID
Allocation( )	USB
OK( )	<b>OK( )</b>
681BBack( )	<b>Back( )</b>

2. **Allocation( ) USB**

3. **OK( )** USB

**iSCSI**

RAID iSCSI :

1. **Volume Allocation List( ) iSCSI Target(iSCSI )**



**Create iSCSI Volume(iSCSI )**

iSCSI	
RAID ID	RAID ID
Unused( )	RAID
Allocation( )	USB
iSCSI Target Service (iSCSI )	iSCSI
Authentication( )	CHAP None( )
Target Name( )	iSCSI Stackable NAS(NAS )
Year( )	
Month( )	
Username( )	
Password( )	
Password Confirm( )	
IQN	iSCSI (iSCSI Qualified Name)
Initiator Information ( )	iSCSI
OK( )	<b>OK( )</b>
Back( )	<b>Back( )</b>

2. **Allocation( )**

3. **iSCSI Target Service(iSCSI ) Enable( )**

- 4. CHAP *None*( )
- 5. Target Name ( ) **Stackable NAS (NAS**
- 6. Year ( )
- 7. Month ( )
- 8. CHAP **username ( ) password**  
 ( ) **Password Confirm ( )**
- 9. **OK**( ) iSCSI

**NAS**

N5200PRO

5

SMB    AFP

**Stackable User Guide (**

)

Storage( ) Folder( )  
 Folder( )  
 N5200PRO



Folder Name( )	
NFS	<b>NFS Share(NFS )</b> 가 NFS
ACL	<b>ACL( )</b> 가
Edit( )	<b>Edit( ) Edit( )</b> 가
Del( )	<b>Del( )</b>
Add( 가)	<b>Add( 가) Add Folder( 가)</b>

RAID 가 Nsync 가 . Nsync Nsync  
 Nsync

가  
 Folder( ) Add Folder( 가)  
 가  
 Folder( )  
 Add( 가)  
 가  
**Apply( )**  
**Back( )**



가	
RAID ID	가 RAID
Folder Name( )	
Browseable ( )	Yes( )
Public( )	Yes( ) 가 가 FTP FTP ( ) /
Share Folder Limit ( )	가 (GB) .0
Apply( )	Apply( ) 가
Back( )	Back( ) Folder( )

15
60
Windows 98
가

**Folder( )**      **Edit( )**      **Edit Folder( )**  
**Submit( )**      **Back( )**      **Folder( )**

가	
Share Name( )	( )
Comment( )	
783BBrowseable ( )	SMB/CIFS
Public( )	
Share Limit( )	.0
Submit( )	Submit( )
Back( )	Back( ) Folder( )

**OK( )**      **Del( )**      **Cancel( )**  
가 가

가
가

**NFS**

NFS 가 Add(가)

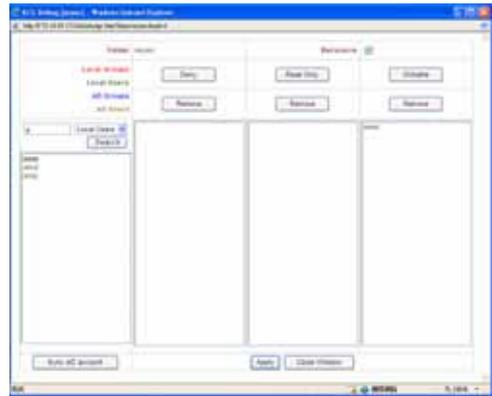
NFS Service(NFS )



NFS	
Hostname( )	IP
Privilege( )	가
805BGuest System Support ( )	가 : <ul style="list-style-type: none"> <li>• Unix / Linux</li> <li>• AIX ( &gt; 1024 )</li> </ul> 가
IO Mapping(IO )	가 : <ul style="list-style-type: none"> <li>• ( : ).</li> <li>• NAS (nobody:nogroup)</li> <li>• NAS (nobody:nogroup) 가</li> </ul>
Apply( )	
Back( )	

**(ACL)**

Folder( ) **ACL**  
**Access Control List( )**



**Deny( ), Read**  
**Only( ) Writable( 가 )**  
**Submit( )**

Deny( )	
Read Only( )	
Writable( 가 )	가
Remove( )	
Sync AD Account(AD )	ADS/PDC ADS 가
Submit( )	
Reset( )	<b>Folder( )</b>

1. **ACL** 가
2. 가 가 가
- 3.
4. **Remove( )**
5. **Submit( )** ACL

가
>
>
가

ACL :

1.
 

a	Local Users ▼
	Local Groups
	Local Users
aaaa	AD Groups
abcd	AD Users

2. 가

3. **Search( )**

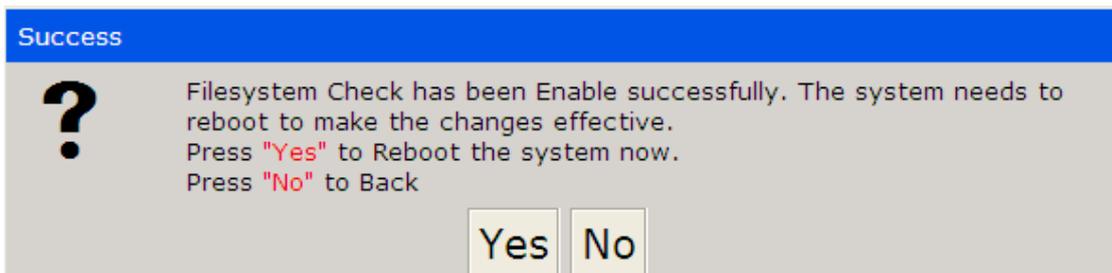
File System Check( )

Storage( ) **Filesystem**  
**Check( )** . File  
 System Check( ) 가



**Apply( )**

가 :



Yes( )

**File System Check( )** 가

RAID

**Next( )**

RAID

**Reboot( )**



**Next( )**



**Start( )** 가 **Back( )**  
**Reboot( )** 가 20  
 가 가



N5200PRO 가

Network( )

**WAN**

Network( ) WAN  
 WAN Configuration(WAN )  
 WAN 가  
 Apply( )



WAN	
Host Name( )	N5200PRO
Domain Name( )	N5200PRO
MAC Address(MAC )	MAC
Jumbo Frame Support ( )	N5200PRO WAN Jumbo Frame Support( )
DHCP	DHCP N5200PRO IP 가 IP가
IP	WAN IP
Netmask( )	255.255.255.0
Gateway( )	IP
875BDNS Server(DNS )	(Domain Name Service: DNS) IP
IP Sharing Mode(IP )	LAN PC WAN Enable( )
Link Aggregation( ) (N5200B PRO )	WAN LAN <b>Failover( ):</b> 가 가 가 <b>Load Balance( ):</b> 802.3ad:

- 가
- DHCP UPnP 가
- WAN IP
- DNS SMTP NTP
- "802.3ad"

802.3ad

(10/100) / N5200PRO  
 N5200PRO N5200PRO  
 Reset( ) 10  
 가 Jumbo Frame Support( )가

**LAN**

N5200PRO

가  
 가  
 Network( )

LAN  
 Configuration(LAN )  
 Apply( )



LAN	
MAC Address(MAC )	LAN MAC
IP	LAN IP
Netmask( )	LAN
Jumbo Frame Support ( )	LAN

Jumbo Frame Support( )  
 가  
 N5200PRO  
 5

**DHCP**

DHCP

IP LAN  
 Network( ) LAN

DHCP	
903B	
DHCP	DHCP 가 LAN IP
Start IP( IP)	DHCP IP
End IP( IP)	DHCP IP
DNS Server(DNS )	DNS IP

WAN LAN IP

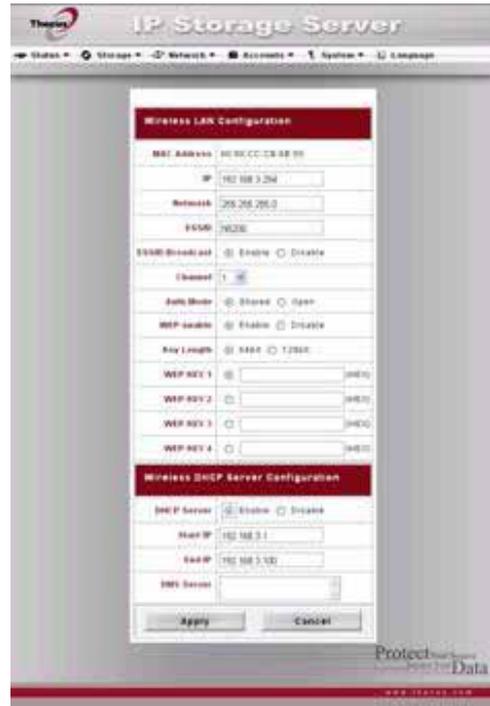
LAN IP IP IP

## WLAN

USB N5200PRO Network( )  
 WLAN Network( ) WLAN  
 WLAN Configuration(WLAN )

가  
 Apply( )

- USB : 3Com 3CRUSB10075, Zyxel G220USB, PCI GW-US54mini.
- USB N5200PRO



WLAN	
MAC Address (MAC )	USB MAC
918BIP	IP
Netmask( )	: 255.255.255.0
ESSID	ID(Extended Service Set Identification: ESSID)
ESSID Broadcast (ESSID )	ESSID가 N5200PRO (AP)가 ESSID N5200PRO ESSID
Channel( )	N5200PRO가
Auth Mode( )	N5200PRO 가 Shared( ): Open( ):
WEP Enable(WEP )	
Key Length( )	N5200PRO 64 : 0 ~ 9 A ~ F 10 128 : 0 ~ 9 A ~ F 26
WEP KEY 1(WEP 4)	4 WEP
WEP KEY 2(WEP 4)	
WEP KEY 3(WEP 4)	
WEP KEY 4(WEP 4)	

DHCP IP LAN

WLAN DHCP	
DHCP	DHCP
Start IP( IP)	DHCP IP
End IP( IP)	DHCP IP
DNS Server(DNS )	DNS IP

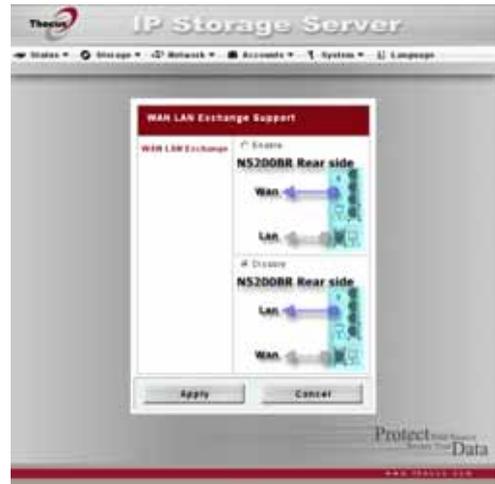
WLAN, WAN, LAN IP

N5200PRO RF RF  
 Thecus RF  
 11  
 14  
 13 (ETSI)  
 2  
 4

**WAN LAN**

N5200PRO WAN LAN 가  
 . WAN LAN

Network( ) WAN LAN  
 Exchange(WAN LAN )  
 WAN LAN Exchange Support(WAN LAN )  
 Enable( )  
 Disable( ) Apply( )  
 Cancel( )



Network( ) Service( )  
 Web Service( )  
 가 가  
 Apply( )

• HTTP HTTP 가  
 • SMB/CIFS



HTTP (WebDisk) Support (HTTP (WebDisk) )	WebDisk
HTTPs (Secure WebDisk) Support (HTTPs ( WebDisk) )	WebDisk
SMB/CIFS	Windows, Apple, Unix SMB/CIFS
UPnP	(Universal Plug and Play) UPnP N5200PRO IP

## AFP (Apple Network Setup:)

Network ( ) **AFP**  
**AFP Configuration**(AFP )

(Apple Filing Protocol)

가

**Apply**( )



AFP	
AFP Server(AFP )	MAC OS N5200PRO (Apple File Service)
Zone( )	(Appletalk) Appletalk 가 N5200PRO (* )

## NFS

Network ( ) **NFS**  
**NFS Server Setting**(NFS )

. N5200PRO NFS

NFS

**Apply**( )



NFS	
NFS	NFS <b>Enable</b> ( ) <b>Disable</b> ( )
Apply( )	<b>Apply</b> ( )
Cancel( )	<b>Cancel</b> ( )

N5200PRO 가 Accounts( )

Accounts( ) Users( )  
 Local User  
 Configuration( )  
 Add( 가), Modify( ), Delete( )



Add( 가)	<i>Add( 가)</i> 가
Modify( )	<i>Modify( )</i>
Delete( )	<i>Delete( )</i>

가

1. Local User Configuration( )  
 Add( 가)  
 Local User Setting( )
2. Local User Setting( )  
 User Name( )
3. User ID( ID)
4. Password( )  
 Confirm( )
5. 가 Group Members( ) 가  
 Group List( ) 가  
 << >>
6. Apply( ) 가



1. Local User Configuration( )
2. *Modify*( ) Local User Setting( )
3. << >>  
가  
*Apply*( )

1. Local User Configuration( )
2. *Delete*( ) 가

Accounts( ) *Groups*( )  
Local Groups  
Configuration( )  
Add( 가), *Modify*( ), *Delete*( )



Add( 가)	<i>Add</i> ( 가) 가
<i>Modify</i> ( )	<i>Modify</i> ( )
<i>Delete</i> ( )	<i>Delete</i> ( )

가

1. Local Group Configuration( ) *Add*( 가)
2. Local Group Setting( )
3. Group Name( )
4. Group ID( ID)

- Members List( )  
가 Users List( )

- Apply( )



- Local Group Configuration( )

- Modify( )

- 가 Users List( )  
<< Members List( )
- Members List( )  
>>
- Apply( )

- Local Group Configuration( )

- Delete( )

N5200PRO  
가  
(\*.txt)  
가

Accounts( ) Batch  
Mgmt( ) Batch  
Create Users and Groups( ) 가

가 :

- Browse...( )



[ ], [ ], [ ]

- Open( )
- Import(가 )

가

## ADS/NT

Windows Active Directory Server(ADS)  
Windows NT

ADS/NT

N5200PRO가 ADS/NT

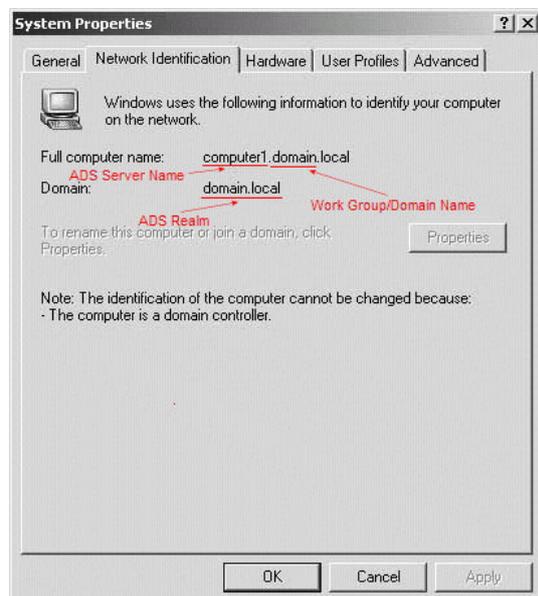
가 . Accounts( )  
Authentication( )  
ADS/NT Support(ADS/NT )  
가  
Apply( )



ADS/NT Support(ADS/NT )	
WINS Server(WINS )	WINS
Work Group / Domain Name ( / )	SMB/CIFS / ADS ( : N5200PRO)
ADS/NT Support(ADS/NT )	Windows Active Directory Server Windows NT
Authentication Method ( )	Windows Active Directory Server ADS Windows NT NT
ADS/NT Server Name (ADS/NT )	ADS/NT ( : adservername).
ADS/NT Realm(ADS/NT )	ADS/NT ( : example.com).
Administrator ID( ID)	Windows Active Directory Windows NT ID N5200PRO가
Administrator Password ( )	ADS/NT
Confirm Password( )	

AD

N5200PRO



AD	
Work Group / Domain Name ( / )	
ADS Support(ADS )	Enable ( )
ADS Server Name (ADS )	Computer1
ADS/NT Realm (ADS/NT )	Domain.local
Administrator ID ( ID)	Administrator ( )
Administrator Password ( )	*****
Confirm Password ( )	*****

- WAN DNS ADS
- N5200PRO ADS
- N5200PRO ADS 5
- Administrator Password( ) N5200PRO 가 ADS(Active Directory Server)

System( ) N5200PRO

System( ) Notification( )  
 Notification  
 Configuration( )  
 N5200PRO가

Apply( )



Beep Notification( )	가
Email Notification ( )	
SMTP Server(SMTP )	SMTP /IP
Port( )	
Auth Type( )	SMTP
SMTP Account ID (SMTP ID)	SMTP ID
Account Password( )	
Confirm Account Password ( )	
Receiver's E-mail Address ( )	가
Test E-Mail( )	

System( ) Logs( )  
 System Logs( )





Truncate All Log File ( )	
<< < > >>	가 (> >> ) 가 ( << <)
INFO( )	
WARN( )	
ERROR( )	
GO(가 )	Go(가 )
Ascending( )	
Descending( )	
Download All Log File ( )	

System( ) Time( )  
Time( )  
Date( ), Time( ), Time  
Zone( ) . N5200PRO

(Network Time Protocol)

가  
**Apply**( )



Date( )	
Time( )	
Time Zone( )	
NTP Server(NTP )	<b>Yes</b> ( ) N5200PRO가 NTP <b>Manually</b> ( ) N5200PRO가 가 NTP <b>No</b> ( ) N5200PRO가 NTP

 
NTP 가 N5200PRO 가 NTP

System( ) Config  
 Mgmt( ) System  
 Configuration Download/Upload( / )



/	
Download( )	
Upload( )	가



System( ) Module  
 Mgmt( ) Module  
 Management( )  
 N5200PRO



Name( )	
Version( )	
Description( )	
Enable( )	
Status( )	
Uninstall( )	
Enable/Disable ( / )	
Check Update( )	

)	
Module File( )	
Browse( )	PC
Install( )	N5200PRO



System( )      **Factory**  
**Default**( )      **Reset**  
**to Factory Default**( )  
**Apply**( )  
N5200PRO가  
**Cancel**( )



System( )      **Firmware**  
**Upgrade**( )  
**Firmware Upgrade**( )

1. **Browse**( )
2. **Apply**( )
3.      가      가  
LED가



**System( ) Administrator**  
**Password( )**  
**Change Administrator Password(**  
**) New**  
**Password( )**  
**Confirm Password( )**  
**. Apply( )**



New Password( )	
Confirm Password ( )	
Apply( )	

**System( ) Reboot &**  
**Shutdown( )**  
**Shutdown/Reboot System(**  
**/ )**  
**Reboot( )**  
**Shutdown( )**



**System( ) > Logout( )**

# 5 : 가

N5200PRO FTP 가 USB 가 FTP

## FTP

N5200PRO FTP FTP

Network( ) FTP  
가  
Apply( )



FTP	
FTP	N5200PRO FTP
FTP ENCODE (FTP )	FTP 가 ( : Windows® 95/98/ME MAC OS9/8), OS 가 BIG5, HZ, GB2312, GB18030, ISO, EUC-JP, SHIFT-JIS, UTF-8

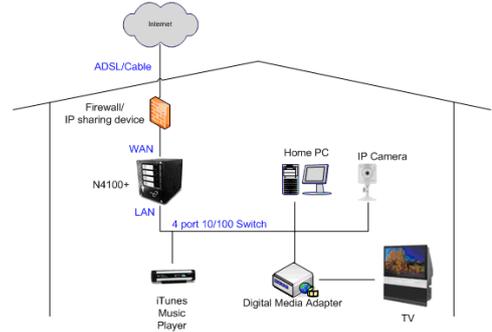
N5200PRO Users( )  
(Accounts( ) > Users( )).  
ACL (Storage( ) > Folder( ) > ACL).

N5200PRO  
UPnP AV

(Digital Living Network Alliance:

DLNA)  
가

N5200PRO



Network( )  
Media Server( )  
Media Manager Settings( )



Media Server( )	
Shared Media Folders ( )	
Rescan( )	<b>Rescan( )</b> N5200PRO가

가

가

가

가

1. **Network( ) > Media Server( )**

2. **Shared Media Folders( )**

3.

## DMA

(Digital Media Adapter: DMA)

1. DMA

a. DMA IP . IP

- b. DMA . DMA  
DMA . DMA
- 2. DMA TV .
- 3. TV DMA .
- 4. DMA .( DMA .)
- a. Server List( ) "N5200PRO:Mediabolic Server"(N5200PRO: Mediabolic )
- b. My Media( )
- c. UP ( ) / Down ( ) Music Jukebox( )  
, Photo Albums( ) Video Clips( )
- d. N5200PRO

N5200PRO

PC가

## Windows XP SP2

Windows XP SP2

:

1. USB (USB 가 USB ; USB HDD ).
2. **Start** ( ) > **Printers and Faxes** ( )
3. **File** ( ) > **add Printer** ( 가)
4. 가 가 . **Next** ( )
5. **"A network printer, or a printer attached to another computer"** ( )
6. **"Connect to a printer on the Internet or on home or office network"** ( " " ) URL  
http://<Thecus\_NAS>:631/printers/usb-printer
7. Windows
8. Windows " " . **Next**  
**Yes**( )  
( )
9. **Finish** ( )

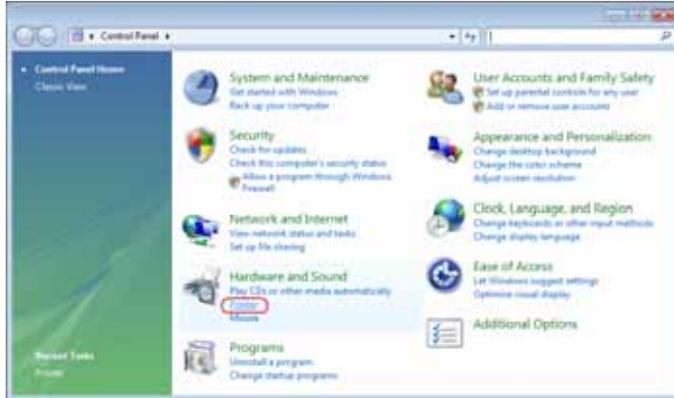


- USB 가 Thecus
- ( ) 가 N5200PRO

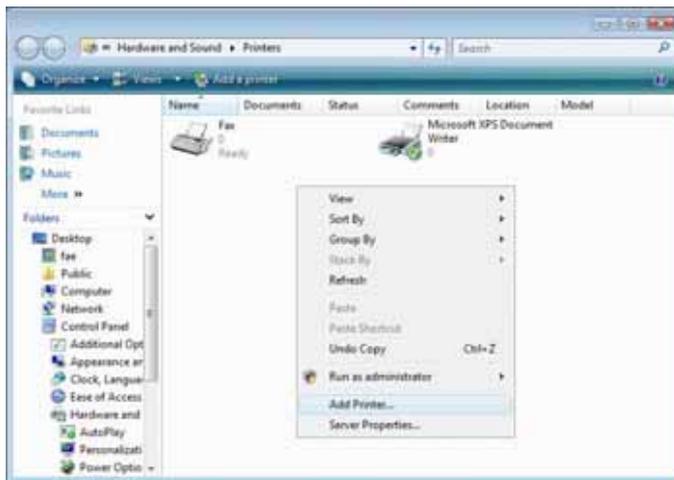
# Windows Vista

Windows Vista

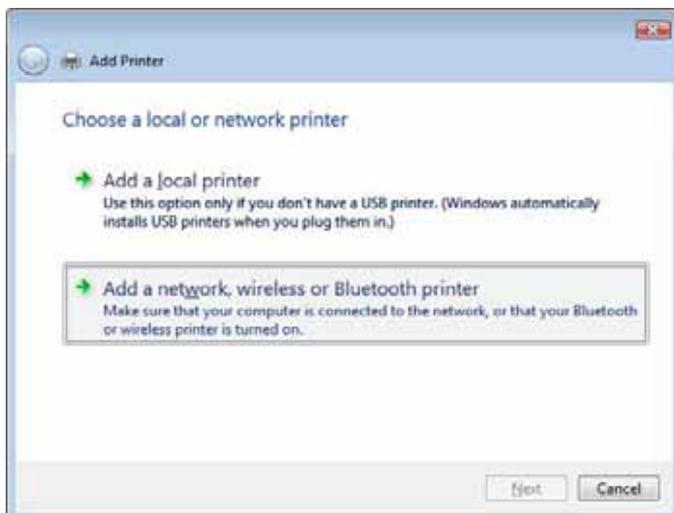
1. **Printer Folder ( ) Control Panel ( )**



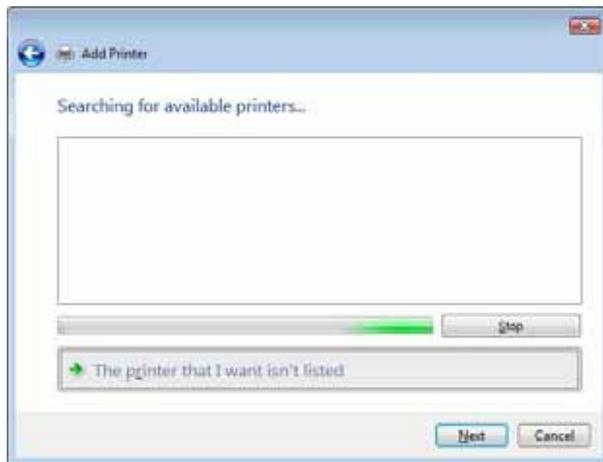
2. **Printers( ) Add Printer( 가)**



3. **Add a network, wireless or Bluetooth printe ( , Bluetooth ) 가**

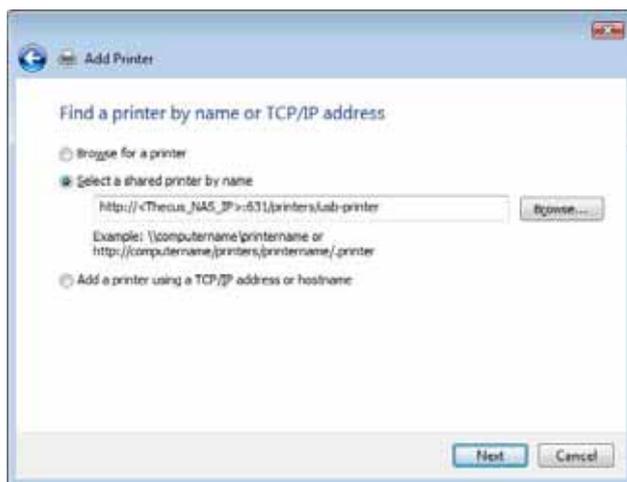


4. **The printer that I want isn't listed ( 가 )**



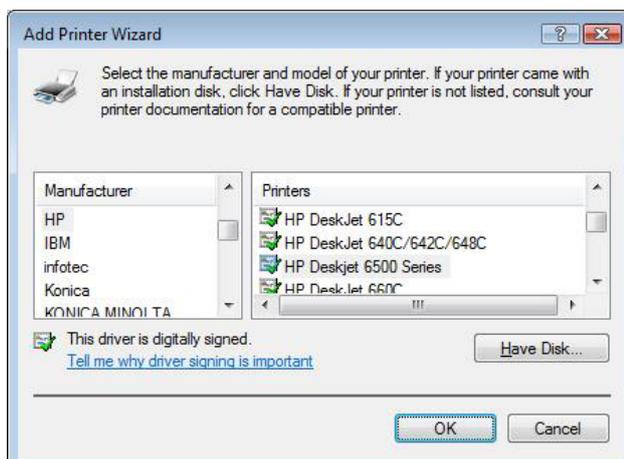
**The printer that I want isn't listed ( 가 )**  
**Searching for available printers ( 가 )**

5. **Select a shared printer by name ( )**

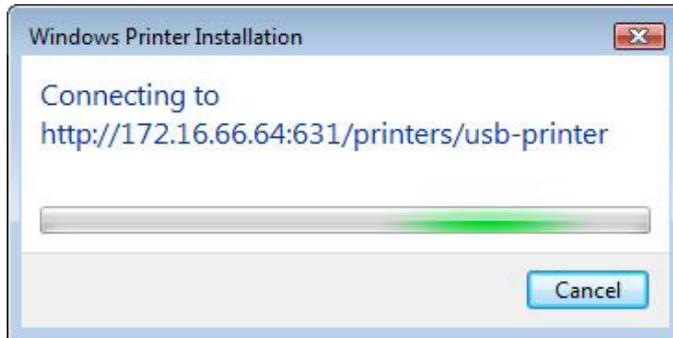


http://<Thecus\_NAS>:631/printers/usb-printer  
 <Thecus\_NAS\_IP> N5200PRO IP . **Next ( )**

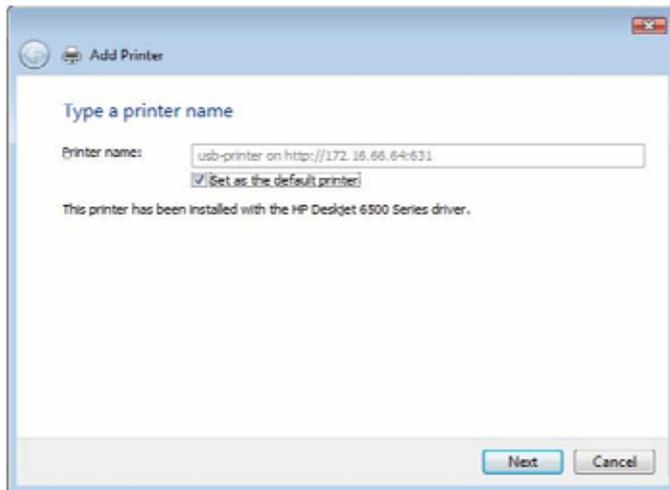
6. **OK ( )**



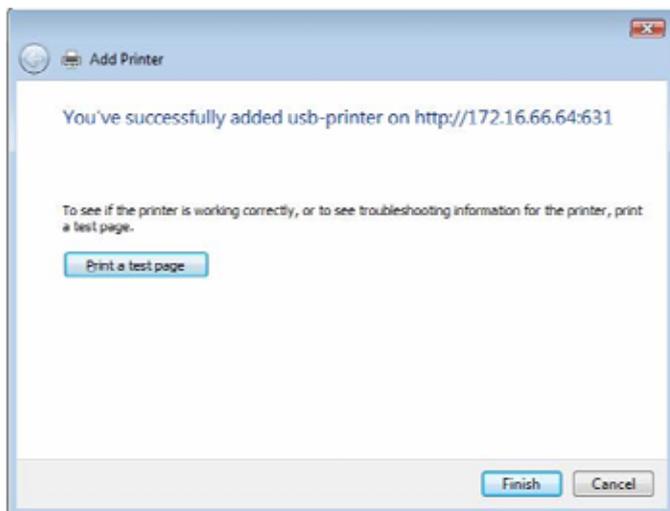
7. Windows



8. *Set as the default printer* ( )  
*Next* ( )



9. 가 ! *Finish* ( )



## 6 : N5200PRO

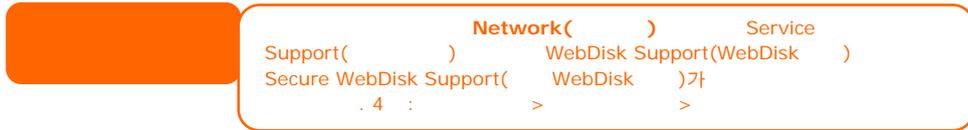
N5200PRO가

N5200PRO

http://192.168.1.100)

IP ( IP

N5200PRO Login(N5200PRO )



Login( )

WebDisk

### WebDisk

N5200PRO

WebDisk

1. ID >

2. WebDisk 가 (ACL:Access Control List) 가

3.

4. 가

WebDisk	
Name( )	
Size( )	
Type( )	
Modified Date( )	가

5.

WebDisk	
Up( )	
New folder( )	
New file (upload)( )	
Delete Selected Items( )	

6. New Folder( ) . OK( )

7. New File (Upload) ( )  
Browse ( )  
OK ( )
8. Selected Items ( ) Delete  
가  
4 : >  
> **(ACL : Access Control List)**

## PC N5200PRO

N5200PRO

. N5200PRO :

### Windows

1. Windows **My computer** ( )
2. **Tools** ( ) **Map Network Drive** ( )...  
)...
- 3.
- 4.
5. **Browse** ( )  
IP ( )  
\\192.168.1.100\share)
6. **Finish** ( ) **Connect As...** ( ...)
7. **OK** ( ) 가 가

### Apple OS X

1. **Go** ( ) > **Connect to Server...** ( ...)
2. SMB/CIFS :  
smb://192.168.1.100/Folder1  
AFP  
afp://192.168.1.100/Folder1  
**Connect** ( )
3. MAC OS X N5200PRO

4. MAC OS X N5200PRO  
OS X

MAC

## ***N5200PRO iSCSI***

N5200PRO iSCSI  
N5200PRO

. iSCSI

N5200PRO

## **Windows 2000/XP**

1. Microsoft (<http://www.microsoft.com>) iSCSI Initiator  
iSCSI Initiator

2. 가 EXE iSCSI Initiator  
가 **Run( )**



3. Setup Wizard( ) iSCSI Initiator  
**Next( )**



4. **Next( )**



5. **Next( )** **I Agree( )**



6. **Finish( )**



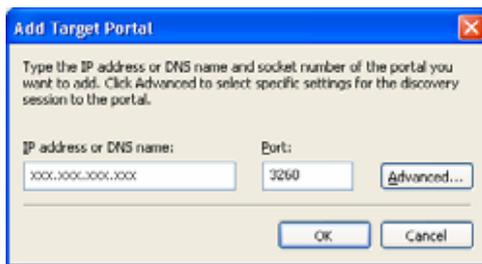
7. **iSCSI Initiator** **iSCSI Initiator**



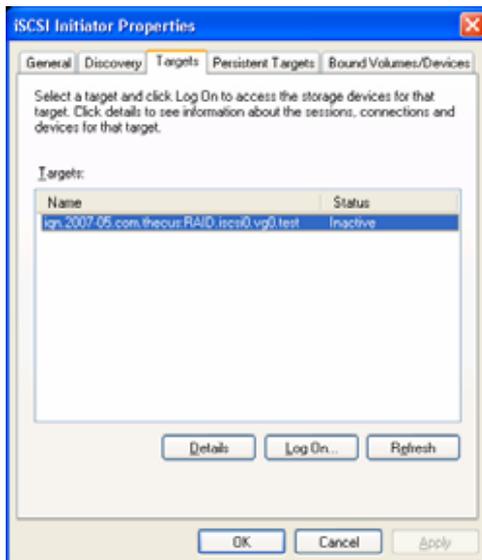
8. **Discovery( )** . **Target Portals( )**  
**Add( ㄱ)**



9. N5200PRO IP . **OK( )**

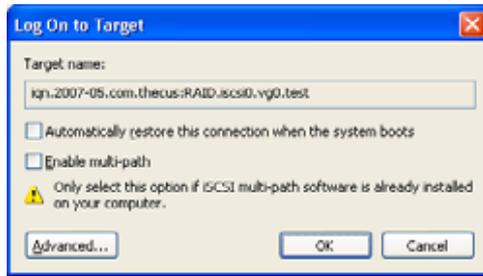


10. **iSCSI Initiator Properties(iSCSI Initiator )** . **Targets( )**  
**Log On to Target( )** . **Log On( )**  
**가**



11. CHAP

OK ( )



CHAP

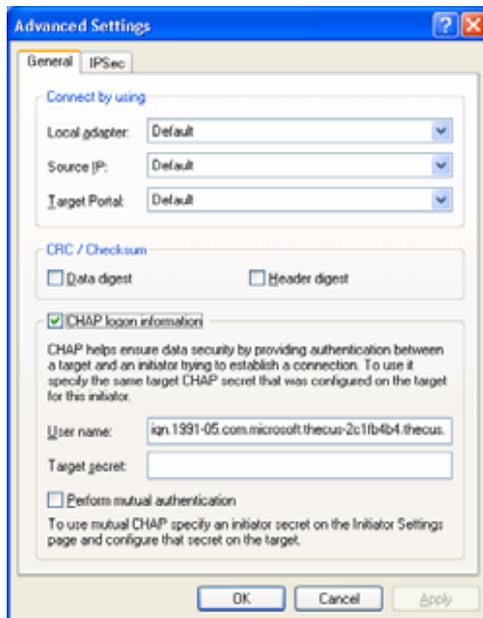
Advanced ( )

Advanced

Settings ( )

CHAP login information (CHAP )

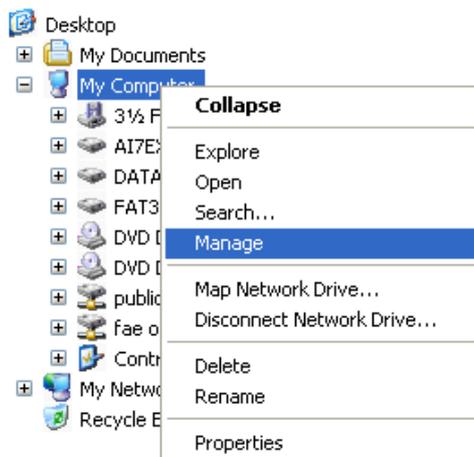
OK ( )



12.

My computer ( )

Manage ( )



13. 가



14. iSCSI

### Windows Vista

Windows Vista Microsoft iSCSI Initiator가  
가 iSCSI Initiator 8  
- 14 N5200PRO iSCSI

N5200PRO

### Nsync

) FTP N5200PRO(Nsync  
Nsync N5200PRO N5200PRO  
N5200PRO  
N5200PRO  
가 Nsync

Storage( ) Nsync Nsync

Nsync	
Task name( )	Nsync
Server( )	IP
Share folder( )	
Last Time( )	Nsync
Last Status ( )	Nsync
Action( )	Nsync
Bandwidth Setting ( )	Nsync
Add( 가)	Nsync 가
Modify( )	Nsync
Restore( )	Nsync
Delete( )	Nsync . Nsync

**Nsync** 가

Nsync Information(Nsync )  
Task(Nsync 가)

Add( 가)

Add Nsync

Nsync 가	
Task Name( )	Nsync
Manufacturer( )	Thecus ( : N5200PRO) FTP
Target Server IP Address ( IP )	IP
Source Folder( )	
Nsync Task Name (Nsync )	Nsync
Authorized Username on Target Server( )	
Password on Target Server( )	
Test Connection( )	
Schedule( )	
Time( )	Nsync
Type( )	Nsync Daily ( ): Nsync Weekly ( ): Monthly ( ):
Apply( )	



**Nsync** Nsync

Nsync "nsync"

1. Nsync Nsync ( : nsyncsource1) 가  
N5200PRO 가 4 : >  
> 가
2. Nsync 가 ( : nsyncsource1) nsync  
> ACL 4 :  
> (ACL)
3. ID Nsync

**Nsync**

Nsync "Other Device"( ) N5200PRO FTP  
Auth ID( ID)가 "nsync" 가

## N5200PRO Nsync

N5200PRO Nsync , Nsync가  
 Thecus NAS가 N5200PRO Network( )  
 Nsync Target(Nsync ) Nsync Target Server  
 Setting(Nsync Target )

Nsync	
Nsync Target Server (Nsync )	Nsync

 Nsync TCP/1194

## Thecus

Thecus Backup Utility CD . CD Backup Utility가  
**Program Groups > Thecus > Thecus Backup Utility**  
 (Thecus Backup Utility.exe)



Thecus Backup.exe

 CD Thecus Backup Utility가 Thecus  
 (http://www.thecus.com)

DB

Yes( )

1. Add( 가) Add New Task( 가)  
 가

가	
Task( )	
Source( )	/
Incremental( )	
Destination( )	/
Excluded extensions ( )	
Comments( )	

2. Schedule( ) Monthly ( )  
 Weekly ( )

3. Log( )

 Thecus Backup Utility MAC OS X . Thecus Backup  
 Utility.dmg MAC OS X

## Windows XP

Windows XP Professional

Windows

(Ntbackup.exe)

Windows XP Home Edition

1. Windows XP CD **CD**
2. Microsoft Windows XP **Perform**  
**Additional Tasks( 가 )**
3. **Browse this CD( CD )**
4. Windows **ValueAdd > Msft > Ntbackup**
5. **Ntbackup.msi**

Windows

1. **Start ( )** **All Programs ( ) > Accessories**  
**( ) > System Tools ( ) > Backup( )**
2. **Next( )** **Backup**  
**files and settings( )** **Next( )**
- 3.
4. **Next( )**  
**Browse( )**
5. N5200PRO **Next( )**
6. **Next( )** **Finish( )**

## Apple OS X

Mac OS X

가

Mac OS X

가 가

: [iBackup](#), [Psyncx](#), [iMSafe](#), [Rsyncx](#), [Folder](#)

[Synchronizer X](#), [Tri-BACKUP](#), [Impression](#), [Intego Personal Backup](#), [SilverKeeper](#),

Apple [dotMac Backup](#)

[VersionTracker](#) [MacUpdate](#)

가 "backup"

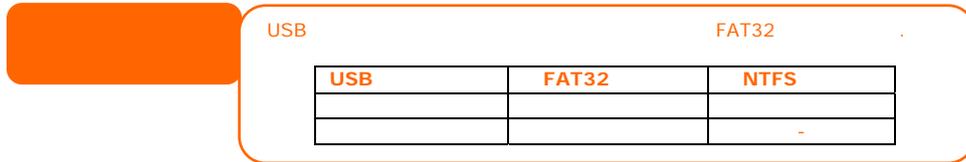
7 :

### USB eSATA

N5200PRO USB USB USB  
 가 USB HDD . USB  
 N5200PRO 6 USB . USB

N5200PRO eSATA eSATA  
 eSATA USB N5200PRO

\\192.168.1.100\usbhdd\sdf1 192.168.1.100  
 N5200PRO IP sdf1 #6 eSATA  
 USB NTFS NAS  
 \\192.168.1.100\usbhdd\sdf1  
 가



가

RAID 1, RAID 5, RAID 6 RAID 10 RAID가  
 가 가 :

1. RAID Configuration(RAID )

2. Add Spare( 가)  
 RAID 가 가

### USB

N5200PRO USB  
 N5200PRO USB B  
 PC N5200PRO USB

RAID RAID USB  
 A-B N5200PRO PC PC  
 PC  
 RAID 가

RAID



N5200PRO

N5200PRO가

N5200PRO

N5200PRO

3

가

- Thecus N5200PRO NAS
- DNS가 /DSL
- PC
- 



### I - DynDNS

1. PC <http://www.dyndns.org>
2. **Sign Up Now( 가 )**
3. ( : N5200PRO), ( : xxx@example.com) , **Enable Wildcard( )** ( : xxxx)
4. [www.dyndns.org](http://www.dyndns.org)
- 5.

### II - DDNS

1. PC **IP Config(IP ) > Miscellaneous DDNS Setting( DDNS )**
2. **Enable the DDNS Client?(DDNS ?) Yes( )**
3. [www.dyndns.org](http://www.dyndns.org)
4.
  - a. : xxx@example.com
  - b. DDNS : xxxx
  - c. : www.N5200PRO.dyndns.org
  - d. ? Yes( )
  - e. : Update( )

### III - 가 (HTTPS)

1. **NAT Setting(NAT ) > Virtual Server(가 )**
2. **Enable Virtual Server?(가 ?) Yes( )**
3. HTTPS
  - a. **Well-Known Applications( ) : User Defined( )**
  - b. **Local IP( IP): 192.168.1.100**
  - c. **Port Range( ) : 443(N5200PRO HTTPS )**
  - d. **Protocol( ) : TCP**
  - e. **Add( 가)**
  - f. **Apply( )**
4. HTTPS

- a. <https://www.N5200PRO.dyndns.org>
- b. N5200PRO 가

( : Norton Internet Security) N5200PRO  
 가 :

1. **NIS** **Personal Firewall**( )
2. **Programs**( ) **SetupWizard.exe** 가 "Permit  
 All( 가)" **Add**( 가)  
**Program Scan**( )
3. **Networking**( ) N5200PRO IP ( : 192.168.1.100)  
**Trusted**( ) 가

RAID 1, RAID 5, RAID 6 RAID 10  
 Thecus N5200PRO

RAID 가 , LCD

N5200PRO

- 1.
- 2.
- 3.
4. N5200PRO
5. HDD가 LED가

**RAID**

N5200PRO RAID 1, 5, 6 10 가

1. 가
2. LCD 가
- 3.
- 4.

## 8 :

WAN IP 192.168.1.100 N5200PRO가 admin

### **IP**

LCD IP N5200PRO IP N5200PRO IP

1. 가 Thecus
2. N5200PRO IP **Device Discovery**( )

### **NAS IP**

N5200PRO IP

1. N5200PRO 가 가 3-5  
**Reset**( ) . ( .)
2. N5200PRO가 IP  
IP: WAN 192.168.1.100, LAN 192.168.2.100  
: admin  
Jumbo Frame Support( ): disabled ( )  
HTTP : 80, HTTPS: 443

### **Windows XP**

1. 가 :
2. 가 : **Multiple connections to a server or shared resource by the same user, using more than one user name, are not allowed** ( 가 ) .

DOS net use  
URL

[http://esupport.thecus.com/support/index.php?\\_m=downloads&\\_a=viewdownload&downloaditemid=57&nav=0](http://esupport.thecus.com/support/index.php?_m=downloads&_a=viewdownload&downloaditemid=57&nav=0)

System( ) Factory Default( ) Reset to  
Factory Default( ) Apply( )  
N5200PRO가



N5200PRO NTP  
N5200PRO가 가  
가 :

- 1.
2. **System( ) > Time( )**
3. **NTP Server(NTP ) No( )**
4. **Date( ), Time( ), Time Zone( )**
5. **Apply( )**

N5200PRO가 NTP clock.isc.org  
DNS NTP  
(Network( ) > WAN > DNS Server(DNS  
) )

**A:**

	N5200BR PRO	N5200BR PRO
/		
	Intel® 1.5GHz Celeron® M	
	512MB DDR	
WAN	가 RJ-45	가 RJ-45
LAN	가 RJ-45	4- 가
HDD	5 x 3.5" SATA II HDD, 가	
HDD	SATA II HDD, 1000GB	
eSATA	eSATA 1	
I/O		
USB	USB A 3 ( ) USB B 1 ( )	
LCD		
LED	LED 5 (DOM, Network Activity( ) 2 , USB Copy(USB ), System Busy( ))	
	230 mm	
	190 mm	
	230 mm	
	AC 100/220V AC, 50/60Hz,	
	0 ~ 40°C	
	20% ~ 85% ( )	
	CE, FCC, BSMI, C-Tick, RoHS	

	Microsoft Networks (CIFS/SMB) Apple Filing Protocol (AFP 3.1) Network File System (NFS v3) File Transfer Protocol (FTP) Hyper Text Transfer Protocol (HTTP) Secure Hyper Text Transfer Protocol (HTTPs)
	Microsoft NT Domain Controller (PDC)* Microsoft Active Directory (AD)*
	Microsoft Windows NT/2000/XP/2003/Vista Unix/Linux/BSD MAC OS X/9/8.6
	IP IP 802.3ad

\*

	(*N5200B PRO )
	(S.M.A.R.T.)
RAID	RAID 0, 1, 5, 6, 10, JBOD RAID - RAID 가 RAID RAID
iSCSI	: Microsoft iSCSI Initiator v2.0.4 StarPort Initiator V3.5.2 MAC OS: globalSAN iSCSI 3.0 (1150) Linux: open-iscsi 2.0-865
	가 가
	Thecus Backup Utility(Windows XP/2000 and MAC OS X) Thecus Nsync
	GUI ( , , , , ) NTP (Wake-on-LAN) /
	LCD
UPS	RS-232 UPS , 가
	USB (IPP )
USB	USB HDD/ USB IEEE 802.11 b/g (AP )**
	Windows 2000/XP/2003 MAC OS X

\*PDC/AD : Microsoft NT 4.0 /Active Directory  
N5200PRO가

\*\* USB [Sales@thecus.com](mailto:Sales@thecus.com)

## B:

N5200PRO가  
N5200PRO

8 :

. Thecus

:

<http://www.thecus.com/download.php>

N5200PRO 가  
Authorization: RMA)

(Return Merchandise

:

[http://www.thecus.com/support\\_tech.php](http://www.thecus.com/support_tech.php)

:

[support-us@thecus.com](mailto:support-us@thecus.com)

:

[sales@thecus.com](mailto:sales@thecus.com)

# Thecus

!



# C: RAID

RAID(Redundant Array of Independent Disks)

. RAID  
I/O . RAID  
RAID

RAID I/O

RAID , I/O

가 RAID 가 RAID RAID

## **RAID**

Thecus N5200PRO RAID 0, 1, 5, 6, 10 JBOD  
RAID . RAID

- 
- 
- 

RAID :

## **RAID 0**

RAID 0 가 RAID 0 RAID

RAID 0

. RAID가

## RAID 1

RAID 1

## RAID 5

RAID 5 I/O

가 ,  
가

RAID 5

가

## RAID 6

RAID 6 RAID 5 ( )  
) 가 가

RAID 5 가 가  
가

RAID 6

## RAID 10

RAID 10 RAID 1

RAID 10 RAID 1

RAID 10 RAID 1

I/O  
RAID 10 2

RAID 1 가

## JBOD

) 가 (JBOD "Just a Bunch of Disks" (" )  
RAID 가 가

가

JBOD

가

가

**Stripe Size( )**

RAID

가  
가

5 가 가 RAID N5200PRO

RAID	
RAID 0	100%
RAID 1	20%
RAID 5	80%
RAID 6	60%
RAID 10	50%
JBOD	100%

RAID 10 4

# D: Active Directory

Windows 2000 Directory(ADS) 가  
 Microsoft Active Directory가  
 / Active Windows OS Active Directory 가  
 Active Directory 가

## Active Directory ?

Active Directory 가  
 " " Active Directory 가 Microsoft

## ADS

ADS N5200PRO ADS  
 N5200PRO ADS  
 ADS :

1. N5200PRO IT  
 N5200PRO ADS  
 N5200PRO ADS

2. /  
 N5200PRO /  
 N5200PRO 가 ADS  
 가 ADS  
 ADS

## E: UPS

Ablerex	MS-RT		
ActivePower	1400VA		
AEC	MiniGuard UPS 700 M2501		
APC	Back-UPS Pro		
	Matrix-UPS		
	<b>Smart-UPS</b>		
	Back-UPS	940-0095A/C , 940-0020B/C , 940-0023A	
	Back-UPS Office	940-0119A	
	Masterswitch Not a UPS - 940-0020		
	Back-UPS RS 500 - USB		
Belkin	Regulator Pro serial		
	Resource		
	Home Office	F6H350-SER, F6H500-SER, F6H650-SER	
	Universal UPS	F6C800-UNV, F6C120-UNV, F6C1100-UNV, F6H500ukUNV	
Best Power	Fortress( )		
	Fortress Telecom		
	Axxium Rackmount		
	Patriot Pro		
	Patriot Pro II		
	Patriot INT51		
	Micro-Ferrups		
	Fortress/Ferrups f-		
Centralion	Blazer		
Clary	ST-800		
Compaq	T1500h		
Cyber Power Systems		320AVR, 500AVR, 650AVR, 700AVR, 800AVR, 850AVR, 900AVR, 1250AVR, . 1500AVR, Power99, 550SL, 725SL, CPS825VA, 1100AVR, 1500AVR-HO	
Deltec	PowerRite Pro II		
Dynex	975AVR		
Effekta	MI/MT/MH 2502		
Energy Sistem	( )		
ETA	mini+UPS WinNT/Upsoft		
ETA	mini+UPS PRO UPS Explorer		
Ever UPS	NET *-DPC		
	AP *-PRO		
Ever-Power	625/1000		
Exide	NetUPS SE		
Fenton Technologies	PowerPal P-		
	PowerPal L-		
	PowerOn		
	PowerPure		
Fairstone		L525/L625/L750	
Fideltronik	Ares 700		
	Ares		

Fiskars	PowerRite MAX		
	PowerServer	10, 30	
Gamatronic	가		
	MP110/210		
	MS-T		
	MS		
	μPS3/1		
Gemini	UPS625/UPS1000		
HP	R3000 XR		
	R5500 XR		
INELT	Monolith 1000LT		
Infosec	iPEL	350, 500, 750, 1000	
Ippon	( )		
Liebert	UPStation GXT2 -		
Masterguard	( )		
Meta System	HF Line	1..4 , /2 5..8	
	HF Millennium	810, 820	
	HF TOP Line	910, 920, 930, 940, 950, 960, 970, 980	
	ECO Network	750, M1000, M1050, M1500, M1800 M2000, M2100, M2500, M3000	
	ECO	305, 308, 311, 511, 516, 519, 522	
	ally HF	800, 1000, 1250, 1600, 2000, 2500	
	Megaline	1250, 2500, 3750, 5000, 6250, 7500, 8750, 10000	
MGE UPS SYSTEMS	NOVA AVR 600 Serial		
	NOVA AVR 1100 Serial		
	Pulsar Ellipse	USBS Serial , S, Premium USBS Serial , Premium S	
	Ellipse Office	600 Serial , 750 Serial , 1000 Serial , 1500 Serial	
	Pulsar Extreme C / EX RT		
	Comet EX RT	, 3:1	
	Pulsar Esprit		
	Evolution S	1250, 1750, 2500, 3000	
	Pulsar M	2200, 3000, 3000 XL	
	Pulsar	700, 1000, 1500, 1000 RT2U, 1500 RT2U, MX 4000 RT, MX 5000 RT Evolution, EXtreme C, ES+, ESV+, SV, ESV, EX, EXL, PSX, SX, Extreme	
	Comet Extreme		
	Comet / Galaxy (Serial)	Utalk Serial Card ( 66060), HID COM Serial Card ( 66066)	
MicroDowell	B.Box BP	500, 750, 1000, 1500	
Microsol	Solis	1.0 1000VA, 1.5 1500VA, 2.0 2000VA, 3.0 3000VA	
	Rhino	6.0 1000VA, 7.5 1500VA, 10.0 2000VA, 20.0 3000VA	
Mustek			
	Powermust	400VA Plus, 600VA Plus, 800VA Pro 1000VA Plus, 1400VA Plus, 2000VA USB	
Nitram	Elite	500, 2002	
Oneac	EG/ON Series		
Online	P-		
OnLite	AQUA 50		
Orvaldi	(400 600 )		
Powercom	SMK-800A		

Powercom	ULT-1000		
	TrustTrust 425/625		
	<b>BNT-1000AP</b>		
	Advice Partner/King Pr750		
	BNT-2000AP		
PowerGuard	PG-600		
PowerKinetics	9001		
PowerTech	Comp1000 DTR		
Power Walker	Line-Interactive VI1000		
Powerware		3110, 3115, 5119, 5125, 5119 RM, PW5115 PW5125PW9120, PW9125, 9120, 9150, 9305	
Powerwell	PM525A/-625A/-800A/-1000A/-1250A		
Repotec	RPF525/625/800/1000		
	RPT-800A		
	RPT-162A		
SMS( )	Manager III		
SOLA		325, 520, 610, 620, 330	
SOLA/BASIC Mexico	ISBMEX		
Socomec Sicon	Egys 420 VA		
Soltec	Winmate 525/625/800/1000		
Soyntec	Sekury C	500, 800	
SquareOne Power	QP1000		
SuperPower	HP360, Hope-550		
Sweex	500/1000 - SafeNet		
	500/1000 - UPSmart		
	BC100060 800VA		
Sysgration	UPGUARDS Pro650		
Tecnoware	Easy Power 1200		
Tripp-Lite	SmartUPS		
	SmartOnline		
	( ) Lan 2.2 - 73-0844		
Trust	UPS 1000 Management PW-4105		
UNITEK	Alpha	500 IC, 1000is, 500 ipE	
UPSonic	LAN Saver 600		
	Power Guardian		
Victron/IMV	( )		
	Lite		



- UPS
- UPS      UPS가      가
  - SEC
  - RUPS
  - RUPS 2000(Megatec M2501 )
  - PhoenixTec
  - Safenet

## F: 가

GNU 가 (General Public License: GPL)  
3 가  
가 가 GNU 가  
가  
Thecus Technology Corp. GPL  
<http://www.thecus.com>

- 가 (Eric Young)([eay@cryptsoft.com](mailto:eay@cryptsoft.com))
- 가 (Mark Murray)가 가
- 가 (Eric Young)([eay@cryptsoft.com](mailto:eay@cryptsoft.com)) 가
- OpenSSL Toolkit (OpenSSL (OpenSSL Project))(<http://www.openssl.org/>)가 가
- (<http://www.php.net/>) PHP가
- 가 (University of California, Berkeley)
- Winning Strategies, Inc.가 가
- Apache HTTP (Apache Group))(<http://www.apache.org/>) 가
- Softweyr LLC, (University of California, Berkeley) 가
- 가 (Bodo Moeller)가 가
- 가 (Greg Roelofs) , O'Reilly and Associates "PNG: The Definitive Guide(PNG: )" 가
- NetBSD Foundation, Inc. 가
- 가 (North Dakota State University)가
- 가 (Lawrence Berkeley Laboratory) (Computer Systems Engineering Group)
- 가 Kungliga Tekniska Högskolan 가
- 가 (Nick Simicich)가 가
- 가 (Tim Hudson)([tjh@cryptsoft.com](mailto:tjh@cryptsoft.com)) 가
- 가 (Christopher G. Demetriou)가 NetBSD 가



가 . 가 가  
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가 가

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 가 가  
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1. 가 가 1

2. 가 :  
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a)  
 b) 가 가 3





