

NOS/DIAG Installation

Accton Technical Support Team

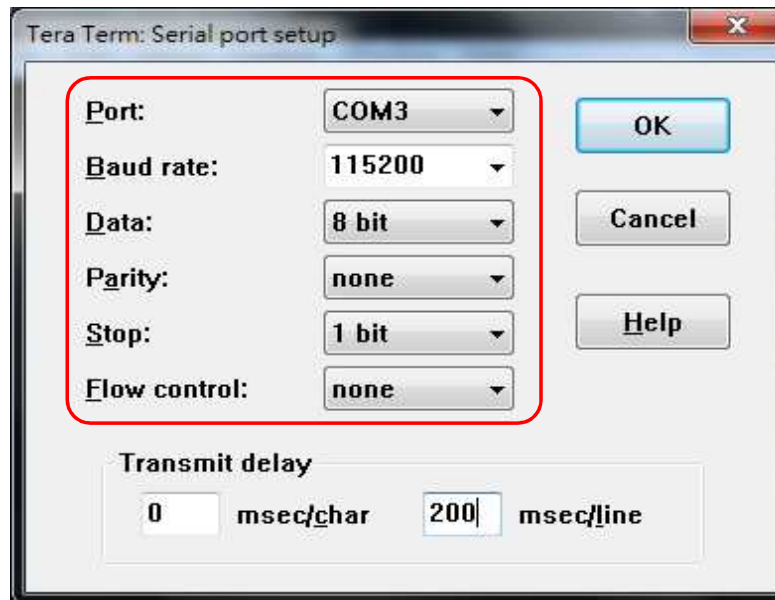
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Switch Console Settings.

Accton

- Serial Console Setting.



The image shows a screenshot of the 'Tera Term: Serial port setup' dialog box. The dialog box has a title bar with a close button (X) in the top right corner. The main area contains several settings, each with a label and a dropdown menu:

- Port:** COM3
- Baud rate:** 115200
- Data:** 8 bit
- Parity:** none
- Stop:** 1 bit
- Flow control:** none

These six settings are enclosed in a red rectangular box. To the right of the settings are three buttons: 'OK' (highlighted in blue), 'Cancel', and 'Help'. Below the settings is a section for 'Transmit delay' with two input fields: '0 msec/char' and '200 msec/line'.

NOS/DIAG Installation

■ X86 Platform

- Power on switch as you see GRUB menu, please select “ONIE: Install OS” and press Enter.

```
GNU GRUB version 2.02~beta2+e4alfe391

+-----+
|*ONIE: Install OS|
| ONIE: Rescue   |
| ONIE: Uninstall OS|
| ONIE: Update ONIE|
| ONIE: Embed ONIE|
|                |
+-----+
```

■ PowerPC/ARM Platform

- Power on switch and press any key to stop autoboot, then enter to ONIE installation mode.

```
Hit any key to stop autoboot: 0
LOADER=>
LOADER=> run onie_bootcmd
Loading Open Network Install Environment ...
Platform: powerpc-accton_as4600_54t-r0
Version : 2015.02.00.05
WARNING: adjusting available memory to 30000000
## Booting kernel from FIT Image at 02000000 ...
Using 'accton_as4600_54t' configuration
Trying 'kernel' kernel subimage
Description: accton_as4600_54t-r0 PowerPC Kernel
Type:       Kernel Image
Compression: gzip compressed
```

NOS/DIAG Installation

■ ONIE Install Mode

- If there is any issue with ONIE, you can send /var/log/onie.log to us.

```
To check the install status inspect /var/log/onie.log.  
Try this: tail -f /var/log/onie.log  
  
** Installer Mode Enabled **  
ONIE:/ #  
ONIE:/ #
```

- In ONIE installation mode ONIE continuous try to discover DHCP IP and NOS installer file path.

```
ONIE: Using DHCPv4 addr: eth0: 192.168.3.121 / 255.255.255.0  
ONIE: Starting ONIE Service Discovery  
Info: Fetching tftp://192.168.3.99/48-0f-cf-af-b0-90/onie-installer-x86_64-accton_as5712_54x-r0 ...  
Info: Fetching tftp://192.168.3.99/COA80379/onie-installer-x86_64-accton_as5712_54x-r0 ...  
Info: Fetching tftp://192.168.3.99/COA8037/onie-installer-x86_64-accton_as5712_54x-r0 ...  
Info: Fetching tftp://192.168.3.99/COA803/onie-installer-x86_64-accton_as5712_54x-r0 ...  
Info: Fetching tftp://192.168.3.99/COA80/onie-installer-x86_64-accton_as5712_54x-r0 ...  
Info: Fetching tftp://192.168.3.99/COA8/onie-installer-x86_64-accton_as5712_54x-r0 ...  
Info: Fetching tftp://192.168.3.99/COA/onie-installer-x86_64-accton_as5712_54x-r0 ...  
Info: Fetching tftp://192.168.3.99/C0/onie-installer-x86_64-accton_as5712_54x-r0 ...  
Info: Fetching tftp://192.168.3.99/C/onie-installer-x86_64-accton_as5712_54x-r0 ...  
Info: Fetching tftp://192.168.3.99/onie-installer-x86_64-accton_as5712_54x-r0 ...  
Info: Fetching tftp://192.168.3.99/onie-installer-x86_64-accton_as5712_54x ...  
Info: Fetching tftp://192.168.3.99/onie-installer-accton_as5712_54x ...  
Info: Fetching tftp://192.168.3.99/onie-installer-x86_64 ...  
Info: Fetching tftp://192.168.3.99/onie-installer ...
```

NOS/DIAG Installation

■ Install NOS/DIAG Automatically

- Just copy the installer file to file server and rename to same as fetching list. Ex. onie-installer
- ONIE will auto install it after get DHCP IP and discover installer file.

```
ONIE: Using DHCPv4 addr: eth0: 192.168.3.121 / 255.255.255.0
ONIE: Starting ONIE Service Discovery
Info: Fetching tftp://192.168.3.99/48-0f-cf-af-b0-90/onie-installer-x86_64-accton_as5712_54x-r0 ...
Info: Fetching tftp://192.168.3.99/COA80379/onie-installer-x86_64-accton_as5712_54x-r0 ...
Info: Fetching tftp://192.168.3.99/COA8037/onie-installer-x86_64-accton_as5712_54x-r0 ...
Info: Fetching tftp://192.168.3.99/COA803/onie-installer-x86_64-accton_as5712_54x-r0 ...
Info: Fetching tftp://192.168.3.99/COA80/onie-installer-x86_64-accton_as5712_54x-r0 ...
Info: Fetching tftp://192.168.3.99/COA8/onie-installer-x86_64-accton_as5712_54x-r0 ...
Info: Fetching tftp://192.168.3.99/COA/onie-installer-x86_64-accton_as5712_54x-r0 ...
Info: Fetching tftp://192.168.3.99/C0/onie-installer-x86_64-accton_as5712_54x-r0 ...
Info: Fetching tftp://192.168.3.99/C/onie-installer-x86_64-accton_as5712_54x-r0 ...
Info: Fetching tftp://192.168.3.99/onie-installer-x86_64-accton_as5712_54x-r0 ...
Info: Fetching tftp://192.168.3.99/onie-installer-x86_64-accton_as5712_54x ...
Info: Fetching tftp://192.168.3.99/onie-installer-accton_as5712_54x ...
Info: Fetching tftp://192.168.3.99/onie-installer-x86_64 ...
Info: Fetching tftp://192.168.3.99/onie-installer ...
```

NOS/DIAG Installation

■ Install NOS/DIAG Manually

- If there is no DHCP server service connect to management port, please setup static IP.
- The static IP maybe remove in every discover cycle, just setting static IP again. Or you can use ONIE rescue mode, the ONIE will not using DHCP.

```
ONIE:/ # ifconfig eth0 192.168.3.100
ONIE:/ # ifconfig
eth0      Link encap:Ethernet  HWaddr E0:07:1B:CB:10:72
          inet addr:192.168.3.100  Bcast:192.168.3.255  Mask:255.255.255.0
          UP BROADCAST MULTICAST  MTU:1500  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)
          Memory:ffff00000-ffff20000
```

NOS/DIAG Installation

■ Install NOS/DIAG Manually

- Please press command `install_url` followed by `<file server and file name>` to start install NOS/DIAG.

```
ONIE:/ # install_url tftp://192.168.3.233/as5812_54x_onie_diag_installer.bin
Info: Fetching tftp://192.168.3.233/as5812_54x_onie_diag_installer.bin ...
as5812_54x_onie_diag 100% |*****| 37981k 0:00:00 ETA
ONIE: Executing installer: tftp://192.168.3.233/as5812_54x_onie_diag_installer.bin
Verifying image checksum ... OK.
Preparing image archive ... OK.
Diag Installer: platform: x86_64-as5812_54x-r0
Warning: The kernel is still using the old partition table.

.....
Allocating group tables: done

Success: Support tarball created: /boot/onie-support.tar.bz2
ONIE: NOS install successful: tftp://192.168.3.233/as5812_54x_onie_diag_installer.bin
ONIE: Rebooting...
ONIE:/ # discover: installer mode detected.
Stopping: discover...start-stop-daemon: warning: killing process 5086: No such process done
Stopping: dropbear ssh daemon... done.
Stopping: telnetd... done.
Stopping: syslogd... done.

The system is going down NOW!
Sent SIGTERM to all processes
Sent SIGKILL toRestarting system.
machine restart
```

How to enter to NOS

■ X86 Platform

- Power on switch as you see GRUB menu, Do not press any key just keep GRUB default setting.

```
GNU GRUB version 2.02~beta2+e4alfe391
+-----+
|*Demo NOS|
| ONIE    |
+-----+
```

■ PowerPC/ARM Platform

- Do not press any key just let switch autoboot.

```
Hit any key to stop autoboot: 0
LOADER=>
LOADER=> run onie_bootcmd
Loading Open Network Install Environment ...
Platform: powerpc-accton_as4600_54t-r0
Version : 2015.02.00.05
WARNING: adjusting available memory to 30000000
## Booting kernel from FIT Image at 02000000 ...
Using 'accton_as4600_54t' configuration
Trying 'kernel' kernel subimage
Description: accton_as4600_54t-r0 PowerPC Kernel
Type:       Kernel Image
Compression: gzip compressed
```


How to enter to DIAG

- **X86 Platform**

- Power on switch as you see GRUB menu, please select “DIAG: Accton DiagnosticInstall OS” and press Enter.

```
GNU GRUB version 2.02~beta3
+-----+
| ONIE: Install OS
| *ONIE: Rescue
| ONIE: Uninstall OS
| ONIE: Update ONIE
| ONIE: Embed ONIE
| DIAG: Accton Diagnostic (accton_as5916_54x)
|
+-----+
```

- **PowerPC/ARM Platform**

- Power on switch and press any key to stop autoboot, then type “run diag_bootcmd”.

```
Hit any key to stop autoboot: 0
LOADER=>
LOADER=> run diag_bootcmd
Loading Open Network Install Environment ...
Platform: powerpc-accton_as4600_54t-r0
Version : 2015.02.00.05
WARNING: adjusting available memory to 30000000
## Booting kernel from FIT Image at 02000000 ...
Using 'accton_as4600_54t' configuration
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