

Using the CN2610 for UNIX reverse terminal application

Andy Chu, Engineer, Moxa Technical Support Dept.

In this Technical Note, we cover the following topics:

1. Using the CN2610 with multiport serial board for Ethernet terminal access
2. Configuring the CN2610 for reverse terminal operation

1. *Using the CN2610 with multiport serial board for Ethernet terminal access*

In a MOXA UNIX terminal project, the client's UNIX server relied on a multiport serial board for multiple terminal connections. For access to the server over the network, terminals needed to initiate getty sessions from an Ethernet connection while the server provided access from a serial connection. This is opposite of the serial terminal-to-Ethernet server access usually provided by terminal servers. Port numbers needed to be assigned sequentially as terminal connections were requested.

The CN2610 was used to handle the connection between the UNIX's multiple serial ports and the Ethernet network. The following diagram shows the type of architecture that was used.

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Released on November 28, 2006

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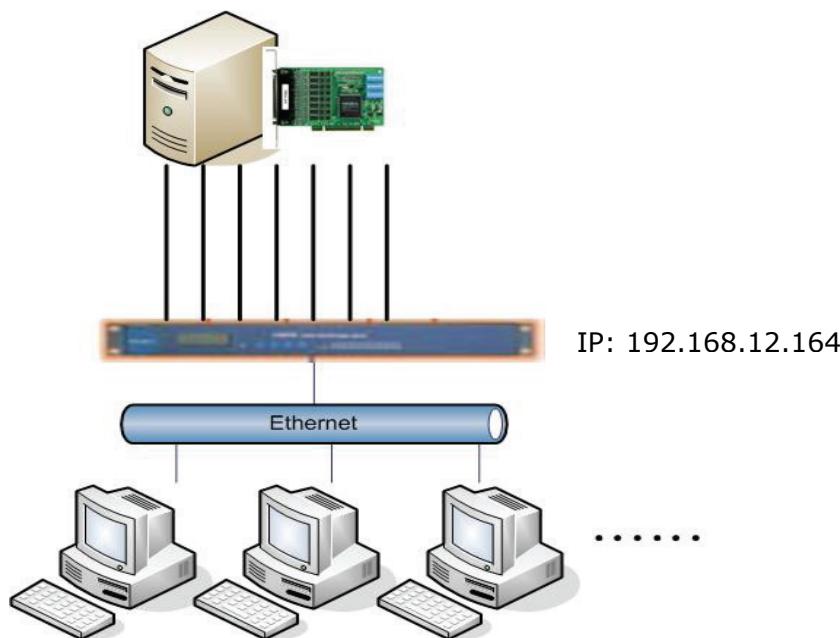
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How to Contact MOXA

Tel: 1-714-528-6777 Web: www.moxa.com
Fax: 1-714-528-6778 Email: info@moxa.com



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In this paper, we will explain how to configure the CN2610 for terminal connections that are initiated over Ethernet, as required by the client for this architecture. This may be used as a starting reference point for other similar systems.

The following related products are also suitable for this kind of application:
CN2510-8/16, CN2610-8/16, NPort 5610-8/16, NPort 6000 Series.

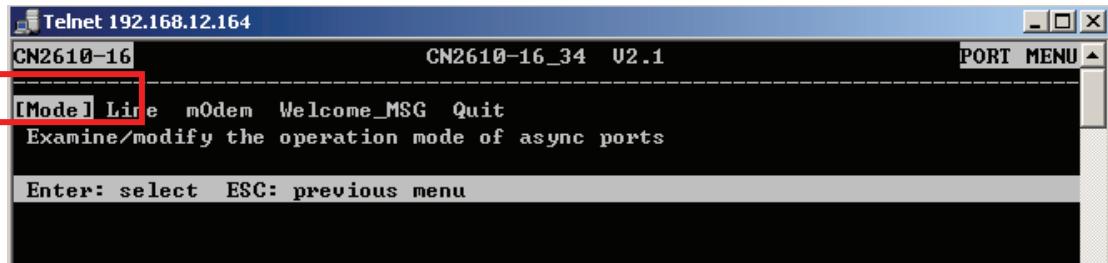
2. Configuring the CN2610 for reverse terminal operation

2.1 Telnet to the CN2610 console.

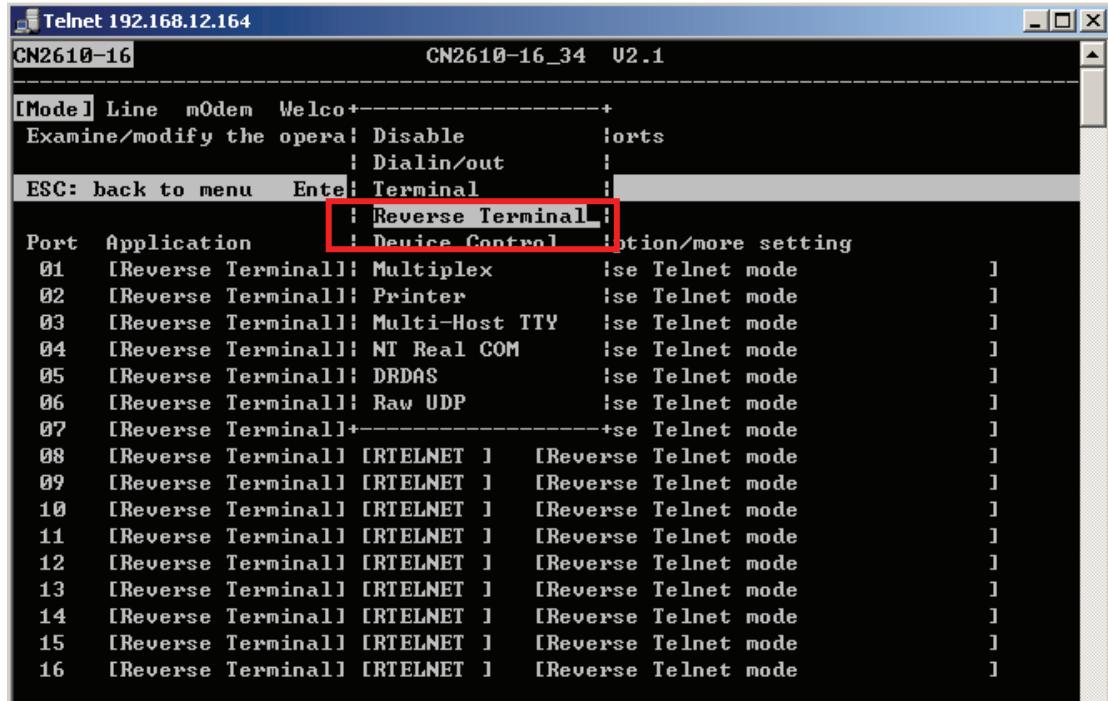
```
Telnet 192.168.12.164
CN2610-16 CN2610-16_34 V2.1
[Server] Port setting save Utility Restart Exit
Examine/modify async server node/table configuration_
Enter: select ESC: previous menu
```

2.2 From the main menu, select [Port]→[Mode].

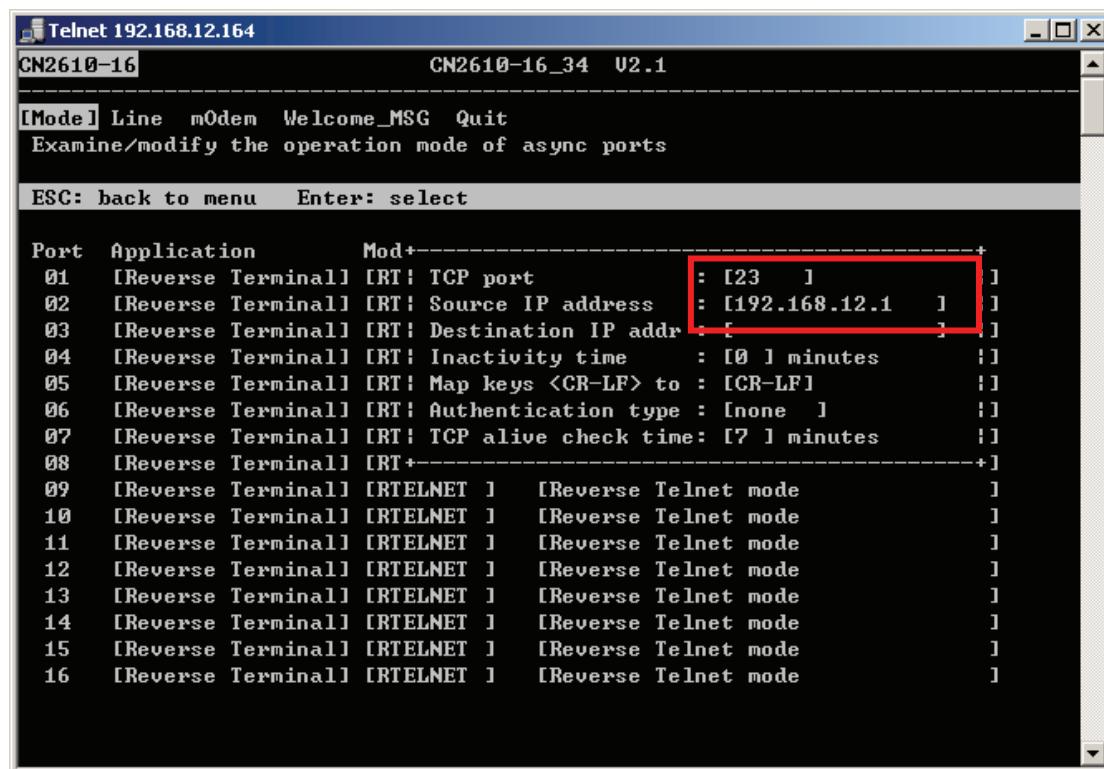
```
Telnet 192.168.12.164
CN2610-16 CN2610-16_34 V2.1
Server [Port] setting save Utility Restart Exit
Examine/modify async server ports configuration
Enter: select ESC: previous menu
```



- 2.3 For each port listed, use the arrow and Enter keys to change the Application to Reverse Terminal. The Mode should automatically change to RTELNET.



- 2.4 For each port listed, use the arrow and Enter keys to update the "Description/more setting". Set the TCP port to 23 and the Source IP to a free IP address. Use the same settings here for every serial port.



- 2.5 After configuration is completed, the CN2610 will automatically assign port 01 for the first getty login, and port numbers will be assigned sequentially after that.