TN0079E [NVE] Collecting log messages.doc

Applies to: NVE/IPC Series
Level: Public

Summary

This article describes how you collect log messages from NVE/IPC series.

Detailed Information

RS-232C cable

You have to connect RS-232C cable to the NVE/IPC which is included in the shipping package. Figure 1 shows RS-232C cable.

Figure 1. RS-232C cable

The DSUB end is connected to the PC's serial port. The other end should be connected to the NVE.

Table 1 shows pins used in D-SUB DB9 of RS-232C cable.

Pin	Name	Function
2	RXD	Received Data
3	TXD	Transmitted Data
5	SG	Signal GND

Table 1. Pin assignment of D-SUB DB9

Table 2 shows the color of wire and its name.

Color of wire	Name of wire
White	RXD
Red	TXD
Black	SG (GND)

Table 2. The wire color and the name of RS-232C cable

Since the RS-232C cable is cross cable, the wires should be connected to the terminal block of NVE/IPC as the following Table 3.

Color of wire	Terminal block name of NVE/IPC
White	Rx
Red	Tx
Black	GND

Table 3. The color of wires and matched name of terminal blocks

The RS-232C cable should be connected at (5) of the following Figure 2. This picture is borrowed from ***NVE Series Hardware Manual-Eng.pdf***. So, the rest of ports are not explained in this document.

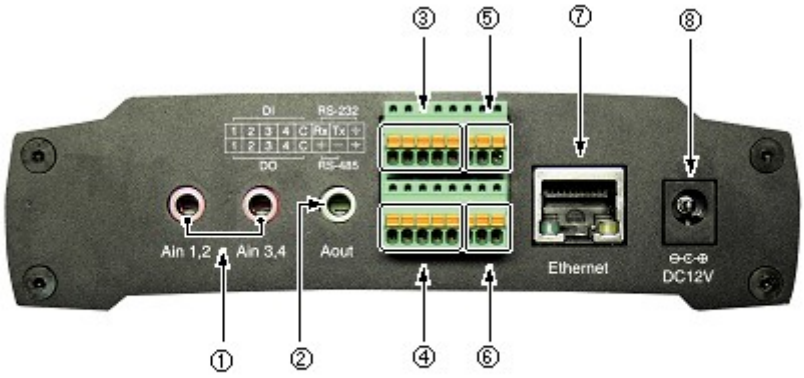

Figure 2. Rear Panel of NVE4000

If the characters printed in HyperTerminal are broken, swap Rx and Tx wires.

HyperTerminal

Windows includes HyperTerminal that can get serial data. The serial port setting should be as the following:

- Bits per second : 115200
- Data bits:8
- Parity:None
- Stop bit:1
- Flow control: None

Figure 3. Serial port setting

Collecting log messages

After the cable is connected and the HyperTerminal is properly set, please turn on the power of a NVE. While the NVE boots up, it prints out log messages as the following Figure 4.

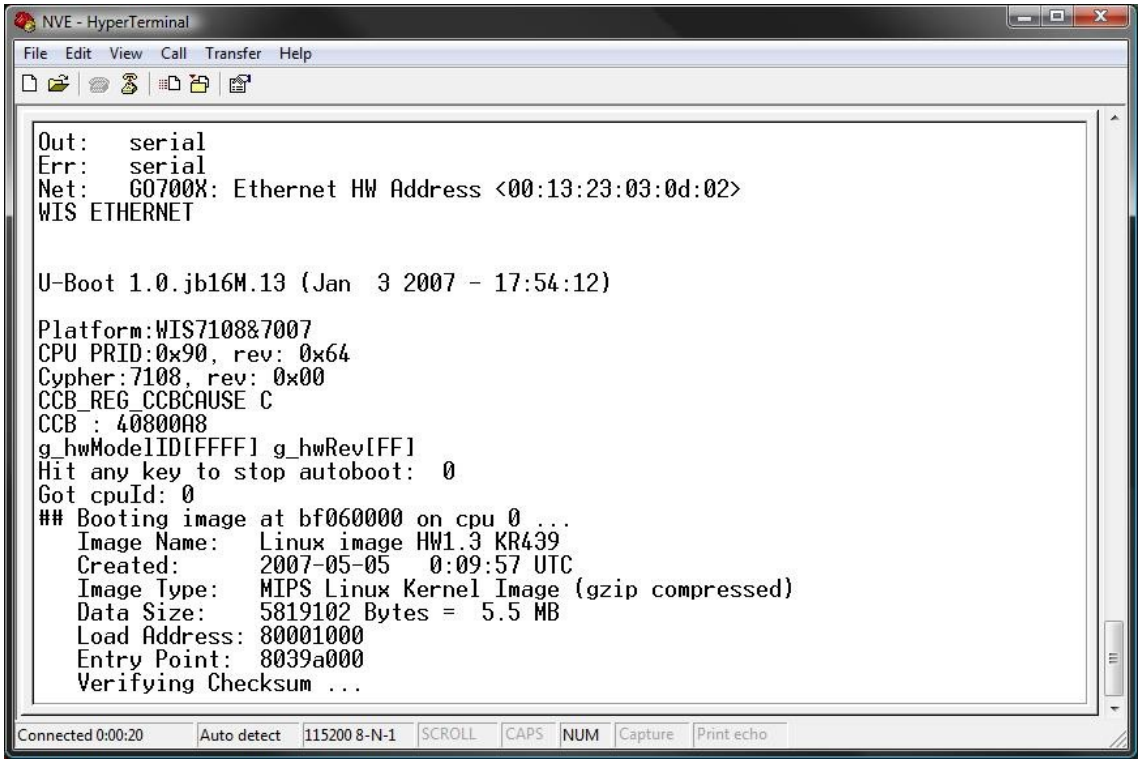

Figure 4. Log messages

Usually it takes about lees than 1 minute to boot up. In order to save the captured log messages to a text file, you have to use a mouse. Select log messages using a mouse and click right mouse button and click copy. Keyboard ctrl+c will deselect your selection.

Revision History

Revision	Date	Description
A	2007-07-11	Created.
B	2007-07-12	Updated RS-232C.