
FRONTLINE TEST SYSTEM™

DL3500-DHM HARDWARE SETUP GUIDE

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1 NetDecoder for DL3500-DHM Hardware Introduction

This section contains the Data Highway Plus DL3500-DHM hardware setup instructions and consists of the following:

- DL3500-DHM Hardware Introduction
- Connect the DL3500-DHM
- Configure the I/O Settings in NetDecoder for the DL3500-DHM

The enclosed DL3500-DHM (Data Highway Monitor) adapter for use with NetDecoder includes firmware that allows the unit to promiscuously capture the data passing on a Data Highway Plus (DH+) network. The unit supports capturing data at 57.6K, 115.2K or 230.4K bps. The DL3500-DHM hardware will automatically sense the DH+ data rate and set the serial port interface to twice the DH+ rate. Apply power to the DL3500-DHM and then connect the network cable to allow auto-sensing of the network data rate.

There are two basic steps to beginning data capture:

Connect the DL3500-DHM hardware to the DH+ circuit and the PC running NetDecoder

Configure the I/O Settings in NetDecoder.

The following items are included with the DL3500-DHM :

- DL3500-DHM hardware
- Power supply
- 9-pin cable

You will need to acquire a Blue Hose 3-wire cable.

1.1.1 Connect the DL3500-DHM

1. If you have not already done so, install the NetDecoder software on the PC you will be using to monitor the DH+ network.
2. Obtain a Blue Hose 3-wire cable. Attach one end of the Blue Hose to the DL3500-DHM's CHA Network interface and then attach the other end to the DH+ Port on one of the PLCs located on the DH+ network you wish to monitor.
3. Attach one end of the 9-pin cable supplied with the DL3500-DHM to the CHB/RS-232 interface on the DL3500-DHM and then attach the other end to a serial port on the PC running the NetDecoder software.
4. Wire-up the power supply to the DL3500-DHM and plug it into a wall outlet.

1.1.2 Configure the I/O Settings in NetDecoder

1. If you have not already done so, connect the DL3500-DHM hardware.

2. Start NetDecoder. Choose NetDecoder from Start | Programs | Frontline NetDecoder [version#] | Frontline NetDecoder. Then from the *Choose Protocol to Analyze* dialog, expand the *Rockwell Allen Bradley* folder, select the *DH+ with a DL3500* icon, and click the *Run* button.
3. Choose *I/O Settings* from the *Options* menu on the Control window, or click the *I/O Settings* icon to open the *I/O Settings* window.
4. In the *Baud* box, set the rate to twice the rate of the *DH+* network. Data will be received from the *DL3500-DHM* at this rate. The default value is 115.2K.
 - In the *DH+ Network* box, set the rate to match the rate of the *DH+* network. This is the network rate used to calculate some of the statistics in NetDecoder. The default value is 57.6K.
 - See the online Help for information on the other settings in the *I/O Settings* window and saving the configuration.

Now you are ready to capture data with NetDecoder! See the section titled *Using FTS - The Tour* in the Quick Start Guide or the online Help to learn how to capture and review data using the NetDecoder software.