



I/O 787-10

INPUT/OUTPUT DEVICE  
USER REFERENCE SHEET  
FOR

**LAN INTERFACE PCB**  
**Part No. 46S02787-0010**  
For use in MicroTrac DSD Power Cube

Effective 5/30/90

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## **INTRODUCTION**

The LAN Interface PCB, REQUIRED in a system drive, makes the physical connection to the LAN (Local Area Network) for the LAN controlling circuitry of the System I/O PCB. The LAN Interface PCB uses a High Impedance Transceiver (HIT) for signal transceiving in order to utilize a bus topology on the LAN. The LAN coaxial cable is connected to this board (through connector J2) by use of a BNC "T" connector. A 10-conductor ribbon cable connects this board (from connector J1) with the LAN controlling circuitry of the System I/O PCB (through its J3 connector).

## **INSTALLATION AND HOOKUP**

This board is factory installed on the drive and should require no further connections to be made to it. However, if it should become necessary to install the board in the field, then the following steps should be taken:

### **WARNING**

HAZARDOUS VOLTAGES CAPABLE OF SEVERE INJURY OR DEATH MAY BE PRESENT WITHIN CABINET. BEFORE OPENING CABINET DOOR, DISCONNECT AND LOCK-OUT INCOMING POWER.

### **CAUTION**

TO AVOID DAMAGE TO ELECTRONIC COMPONENTS, DO NOT MAKE ANY CONNECTIONS WITH POWER APPLIED. USE PROPER ELECTROSTATIC DISCHARGE (ESD) PROCEDURES WHEN HANDLING PRINTED CIRCUIT BOARDS.

1. Turn off incoming power.
2. Refer to Figure 1 for the mounting location for this board.
3. If replacing an existing board, disconnect the LAN coaxial cable and the 10-conductor ribbon cable from connectors J2 and J1 on the board. Then unmount the existing board.
4. Mount this board into its proper position.

### **IMPORTANT**

The mounting hardware provides the connection to power cube chassis ground for this board. This is necessary to provide a return path for the snubber network of the LAN.

5. Connect the 10-conductor ribbon cable (from J3 on the System I/O PCB) to J1 on this board, and connect the coaxial cable BNC "T" connector to J1 on board.

### **SETUP**

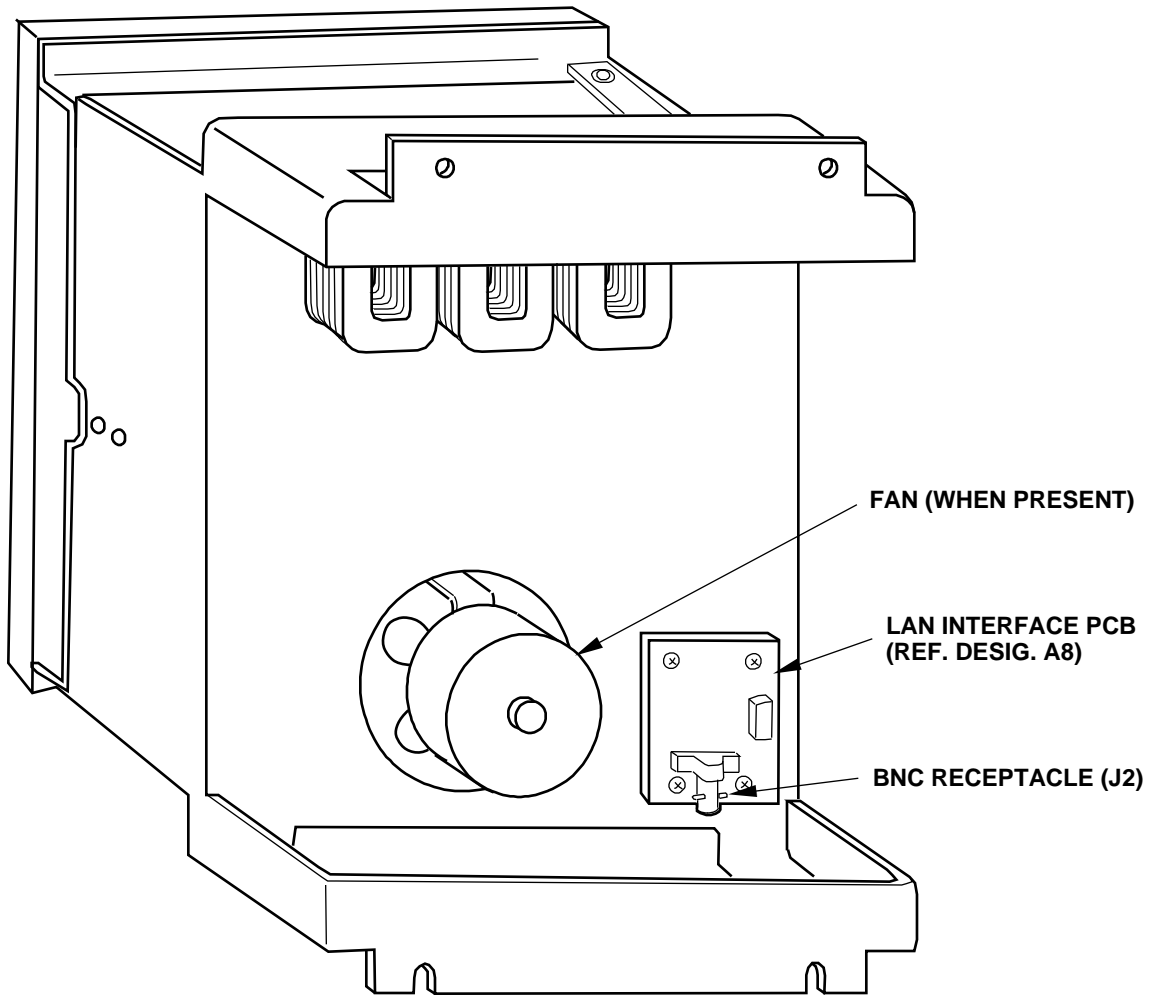
There are no switches, jumpers, or potentiometers to set up.

### **OPERATIONAL DESCRIPTION**

#### **NODE DEFINITION**

The PAC language defines a particular Input or Output by use of a Node, a Channel and a Subchannel. For the LAN Interface PCB, the Node, Channel and Subchannel are those of the System I/O PCB. The definitions are beyond the scope of this document; however, they can be found in the User Reference Sheet for the System I/O PCB.

REAR VIEW OF "SYSTEM" DRIVE POWER CUBE



NOTE: SMALL SIZE UNIT SHOWN

**Figure 1. LAN Interface PCB Mounting Location**