Chapter 2
Installation and Startup

GENERAL

This chapter provides installation and startup information for the FT100 M.

> ☞ **Note**
> *When requesting T1 network service, personnel operating this equipment must complete the affidavit in the front of this manual and file it with the telephone company providing service.*

The hardware options are factory set to meet the needs of most systems. Verify your system requirements and adjust any options before installation. Refer to the "HARDWARE OPTIONS" section on page 2-5 section in this chapter for instructions on changing the switches and straps. Chapters 3 and 4 respectively list the options for each board.

RECEIPT INSPECTION

Inspect the equipment carefully for damage that may have occurred in shipment. If there is damage or material shortage, contact the shipping agent and Motorola authorized distributer for advice and assistance. Retain the shipping container and packing material for possible future shipment.

The FT100 M arrives with following components:

- Standalone housing containing two main circuit boards
- Two user specified piggyback interface boards/adapters
- Power transformer with cable
- User's Guide

The following components must be supplied by the user:

- Port cables
- T1 line cables
- 10BASE T cable (LAN network cable)

SITE PREPARATION

The installation area should be clean, well-lighted, and free from extremes of temperature, humidity, appreciable shock, and vibration. Allow sufficient space at the rear of the unit for cable clearance and air flow.

CONNECTIONS

The following sections describe the various connections on the FT100 M.

MGT Connections

- Connect a VT100 terminal to the **MGT** port on the rear panel.
- These options must be turned OFF on the VT100 terminal:
    - Auto newline
    - Cursor
    - Local echo

Refer to your terminal user's manual for instructions.

The configuration management card's factory settings for the **MGT** port are:

- 19200 bps
- 8 bits/character
- 1 stop bit
- No parity

Network Connections

- Connect a 10BASE T cable, if used, to the **LAN NWK** jack.
- T1 network line connections are made through a standard 8-pin RJ48C jack labeled **NWK** on the rear of the FT100 M. Refer to Appendix B for pin connections for the T1 network connector.

The FT100 M allows either a VT100 or remote Telnet session to control the system. See Figure 2-1.

Any number of FT100 M units can be controlled using SNMP or Telnet by configuring the systems as shown in Figure 2-2. The MIB for the FT100 M product is provided on disk from Motorola.

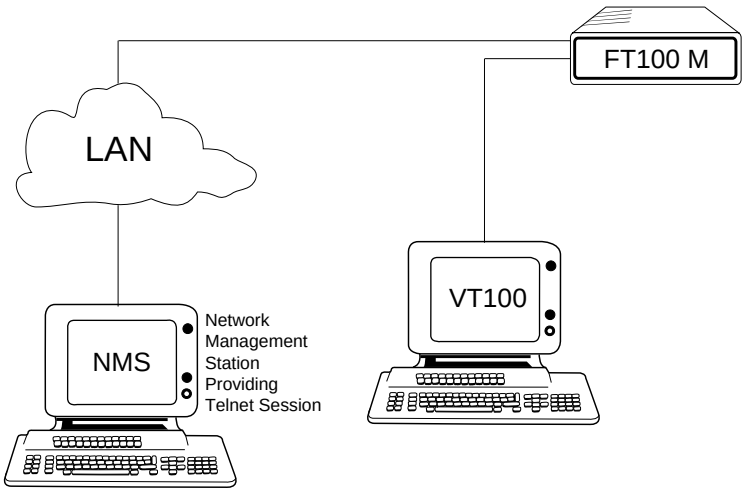

Figure 2-1
LAN Management Using Telnet/VT100 Communication

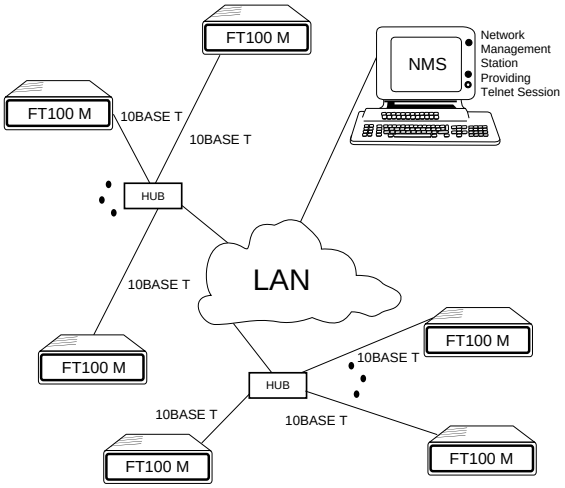

Figure 2-2
SNMP Communication

Port Connections

The two 25-pin PORT connectors on the rear panel connect the user's DTE to the FT100 M. Refer to Appendix B for pin connections for the optional PORT connectors.

To connect the FT100 M to the user's equipment:

1. Insert the DTE cable into either of the **PORT** connectors.

2. Insert the opposite end into the designated DTE, and secure the screws to complete the connection.

3. First, plug one end of the adapter cable in the **POWER** jack on the rear of the FT100 M, then plug the other end into the wall socket.

Figure 2-3 illustrates a typical cabling.

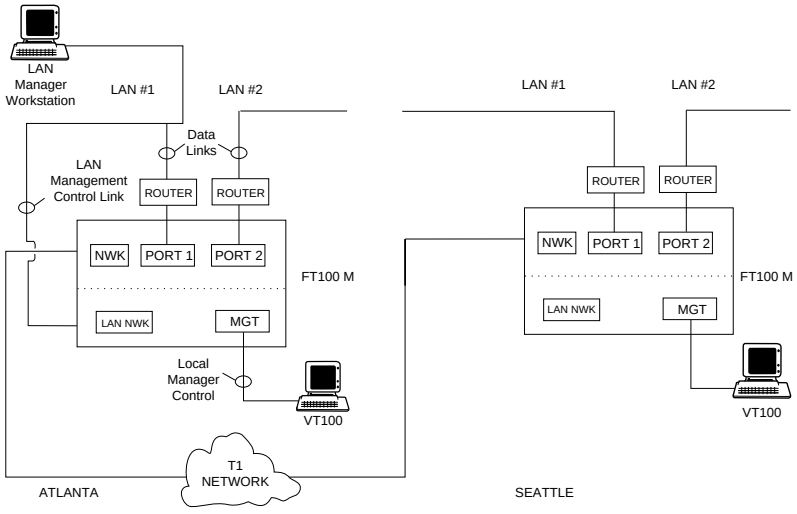

Figure 2-3
Typical Cabling

V.35/RS-449 Adapter Installation

Optional adapters are available to convert the **MGT** connector to a 34-pin V.35 type connector or to a 37-pin RS-449 type connector. Contact your sales representative for information. See the *Service and Support* page at the end of this manual for more information.

HARDWARE OPTIONS

If the switches or straps need to be changed, follow the steps below:

1. Disconnect AC power.

Warning

Although dangerous voltage levels are not exposed, disconnecting power ensures that the hazard of an electrical shock is not present.

2. Remove the front cover by turning the unit up-side down on a flat surface.

3. Insert a medium size screwdriver blade in one of the latches on the bottom of the unit. Do not push the screwdriver but lightly press the blade against the prong (Figure 2-4). This disengages the prong from the latch. Repeat this procedure with the remaining latch.

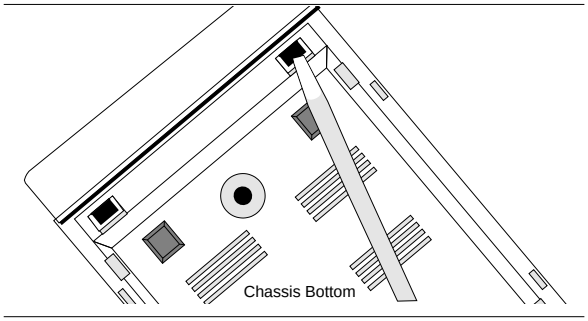

Figure 2-4
Front Panel Removal

4. Push the cover from the chassis with your fingers.

5. Remove the boards by pulling them out one at a time. See Figure 2-5.

6. To change a switch position, use a pointed instrument to gently move the numbered switch ON or OFF.

Caution

Do no use a pen or pencil to position dip switches. Ink buildup and graphite debris can cause an electrical short.

7. To change a strap, remove the plastic yellow strap and reinsert to desired position.

8. To replace the cover, align the latches.

9. Press the cover in place until the latches clasp the prongs.

10. Reconnect AC power.

Refer to Chapter 3 for strap/switch configuration for the configuration management card, and Chapter 4 for configuring the T1 interface card.

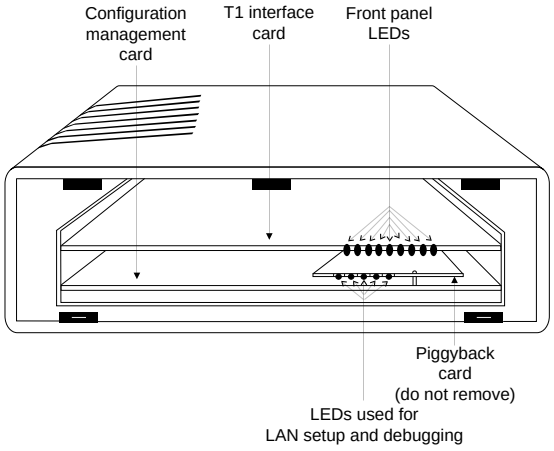

Figure 2-5
Card Removal