

FT100 S

Chapter 1 Introduction

GENERAL	1-1
FUNCTIONAL DESCRIPTION	1-1
PHYSICAL DESCRIPTION	1-2
Front Panel	1-2
Rear Panel	1-3
FEATURES	1-4

Chapter 2 Installation

GENERAL	2-1
RECEIPT INSPECTION	2-1
SITE PREPARATION	2-2
CONNECTIONS	2-3
FT 100S to Network	2-3
FT 100S to Remote Control Device	2-4
FT 100S to DTE	2-5
V.35 Adapter Installation	2-5
POWER	2-7

Chapter 3 Hardware Configuration

GENERAL	3-1
COVER REMOVAL	3-1
CHANGING OPTION SETTINGS	3-2
Grounding	3-4
DTE INTERFACE OPTIONS	3-4
Installing an Interface Card	3-4
Using a Conversion Adapter	3-5

Chapter 4 Front Panel Option Selection

GENERAL	4-1
LCD MENUS	4-1
Using the Pushbuttons to Select Options	4-1
Powerup Displays	4-4
PORT STATUS DISPLAY MAIN MENU 1	4-5
Line Status	4-6
DTE Status	4-7

DIAGNOSTIC OPTIONS MAIN MENU 2	4-8
T1 TESTS	4-9
T1 Local Loopback	4-9
T1 Network Loopback	4-11
Remote CSU Loopback	4-11
Test In Progress	4-14
DTE PORT TESTS	4-14
DTE Port Local Terminal Loopback	4-15
DTE Port Remote Terminal Loopback	4-15
DTE Port Remote Loopback	4-18
With Test Pattern?	4-20
DTE Port Test Pattern	4-22
Test In Progress	4-22
Bit Errors Display	4-24
Average Bit Error Rate Display	4-24
Elapsed Seconds Display	4-24
Restart Test Display	4-25
SELF TEST	4-25
DS0 MONITOR	4-26
PERFORMANCE HISTORY	4-27
% Error Free Seconds	4-28
Error Events	4-28
Timed Error Data	4-29
CONFIGURATION OPTIONS MAIN MENU 3	4-30
T1 LINE OPTIONS	4-31
T1 Framing	4-32
Line Code	4-32
Bit Stuffing	4-33
ANSI Error History	4-33
AT&T Error History	4-34
Timing	4-34
Line Loopback	4-35
Payload Loopback	4-35
Idle Code	4-36
Yellow Alarm	4-36
NETWORK LINE INTERFACE	4-37
DTE PORT OPTIONS	4-37

V.35 or RS-530 Interface Card	4-37
Port Data Rate	4-38
DS0 Grouping	4-39
Transmit Clock Source	4-40
Transmit Clock Polarity	4-41
Receive Clock Polarity	4-41
CTS Signal Operation	4-41
RLSD Signal Operation	4-42
DSR Signal Operation	4-42
TM Signal Operation	4-43
LL Signal Operation	4-43
RL Signal Operation	4-43
Remote Loopback Operation	4-44
CONTROL PORT OPTIONS	4-44
Control Mode	4-45
Baud Rate	4-46
Local Echo	4-46
SETTING A PASSWORD	4-47
SET TIME AND DATE	4-47
Chapter 5 Operation	
GENERAL	5-1
CONTROLS AND INDICATOR	5-1
LED DESCRIPTION	5-1
TD	5-1
RD	5-1
CS	5-2
LOS	5-2
ALM	5-2
TM	5-2
Chapter 6 Control Port Operation	
GENERAL	6-1
Using Control Port Commands	6-1
CONNECTING TO A TERMINAL	6-9
CONNECTING TO A MODEM	6-10
CONNECTING TO LOCALVIEW	6-11
MAIN MENU	6-12

Table of Contents

T1 LINE CONFIGURATION	6-14
DTE PORT SUMMARY	6-16
DTE PORT CONFIGURATION (V.35, RS-530, RS-232 CARD)	6-16
CONTROL PORT CONFIGURATION	6-18
TIME AND DATE	6-18
T1 LINE TEST OPTIONS	6-19
DTE PORT TESTS	6-19
PERFORMANCE HISTORY	6-20
ERROR CONDITION CATEGORIES	6-20
Error Events	6-20
Error Reporting Menus	6-22
ESF Per AT&T Pub 54016	6-22
ESF Per ANSI T1.403	6-22
SF Error	6-23
Local Error History ANSI T1.403	6-23
Remote Error History Per AT&T 54016	6-23
Carrier Performance History	6-24
User Performance History	6-24
REMOTE FT 100S CONFIGURATION	6-25
Configuration Control.....	6-25
Remote Configuration Mode	6-26
Get Remote Configuration.....	6-26
Send Remote Configuration	6-26
Send Remote Unit ID	6-26
Send Remote Password	6-26
Send Remote Time and Date	6-26
COMMAND ENTRY	6-27
Chapter 7 Maintenance	
GENERAL	7-1
FUSE	7-1
MAINTENANCE	7-1
Chapter 8 Troubleshooting	
GENERAL	8-1
COMMON QUESTIONS AND ANSWERS	8-2
BEFORE YOU CONTACT MOTOROLA	8-4

Appendix A Specifications

NETWORK INTERFACE	A-1
LINE RATE	A-1
NETWORK LOOPBACK CODES	A-1
DTE INTERFACE	A-2
CONTROL PORT	A-2
POWER SUPPLY	A-2
MECHANICAL	A-3
ENVIRONMENTAL	A-3

Appendix B Control Port Command Quick Reference

GENERAL	B-1
---------------	-----

Appendix C T1 Overview

GENERAL	C-1
FRAMING FORMATS	C-2
ESF Framing	C-4
Framing Format Conversion	C-6
PERFORMANCE MONITORING	C-6

Service and Support**Index**

Table of Contents
