

**1061
T1
Multicast**



**34-00268
1st Edition**

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1. Introduction

The 1061 T1 Multicast expands a single T1 input to 12 T1 outputs where bridging may not be possible or practical.

Specifications

Input (A/B): Impedance terminated 100 Ω (\pm 2%)
Unterminated 1000 Ω

Output: Per 62411 waveform into 100 Ω

Power

DC Power: -48 VDC (\pm 10%), 50 mA maximum
2.5 Watts, 8.5 BTU maximum

External Power: Off when \leq 3 mA
On when $>$ 4 mA and \leq 20 mA

Connection: Terminal block

Mechanical

Mounting: Desktop, wall, horizontal rack, vertical rack, or vertical nest mount

Dimensions: 1.72 in (4.37 cm) Wide
6.8 in (17.27 cm) High
10.5 in (50.90 cm) Deep

Weight: 4.0 lbs (1.81 kg)

Industry Standards

FCC Compliance: Part 15 Class A, Subpart B

U.S. Safety: UL 1950 Third Edition

Canadian Safety: CSA C22.2 No. 950-95

FCC Requirements

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user is required to correct the interference at his own expense.

Shielded cables must be used to ensure compliance with the Class A FCC limits.



Modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Canadian Emissions Requirements

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

For the DC powered units only, end users should use existing battery sources or a CSA certified power supply.

Le present appareil numerique n'emet pas de bruits radio-electriques dépassant les limites applicables aux appareils numeriques (de la class A) prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

Warranty

TxPORT warrants each unit against defects in material and workmanship for a period of five years from the date the 1061 was shipped to the customer. If the 1061 malfunctions at any time during the warranty period, TxPORT will repair, or at TxPORT's option, replace the 1061 free of charge.

The remedies listed herein are the users sole and exclusive remedies. TxPORT shall not be liable for any indirect, direct, incidental or consequential damages. The owner must return the 1061 to the factory, shipping prepaid and packaged to the best commercial standard for electronic equipment. TxPORT will pay shipping charges for delivery on return. The customer is responsible for mode and cost of shipment to TxPORT. This warranty does not apply if the 1061 has been damaged by accident, misuse or as a result of service or modification by other than TxPORT personnel.

Optional Equipment

The following optional equipment may also be needed to operate the 1061.

Table 1-A Optional Equipment

Part Number	Optional Equipment
Network Cables	
9-1001-004-010	T1 twisted pair with drain
9-1001-092-005	50-pin (male) to 8-pin (modular NET) octopus
9-1001-093-005	50-pin (male) to 8-pin (modular DTE) octopus
Supervisory Cable Kit	
9-1001-073-2	DB-9 female to 8-pin RJ-48 (PC to SUPV)
Adapters	
9-1001-015-1	DB-25 male to 8-pin (modem to SUPV)
9-1001-015-2	DB-25 female to 8-pin (modem to SUPV)
9-1001-016-1	DB-25 male to 8-pin (terminal to SUPV)
9-1001-016-2	DB-25 female to 8-pin (terminal to SUPV)
Rack Mount Kits	
9-2000-001-1	19-inch single unit
9-2000-001-2	19-inch two units
9-2000-002-1	23-inch single unit
9-2000-002-2	23-inch two units
9-2000-001-8	19-inch eight units
9-2000-002-8	23-inch ten units

- Warranty status (if known).
- Purchase order number to cover charges for out-of-warranty items.
- Name and phone number of person we can contact if we have questions about the unit(s).
- Mode of shipment required (second-day air is the normal mode of shipment for all returned material unless otherwise specified).

Units being returned to TxPORT should be sent to the following address:

TxPORT
127 Jetplex Circle
Madison, Alabama 35758

TxPORT Customer Service

TxPORT office hours are Monday through Friday from 8 a.m. to 5 p.m Central Time.

Sales and Marketing

General, sales and marketing information is available during standard business hours by telephone or e-mail.

Toll Free: 800-926-0085
Local: (205) 772-3770
e-mail: info@txport.com

Technical Support

Technical support is available 24 hours a day, seven days a week. You may contact a support representative by telephone or e-mail.

Toll Free: 1-800-285-2755
Local: (205) 772-3770
e-mail: support@txport.com

Returns/RMA

If for any reason you need to return a TxPORT unit, you must have a Return Material Authorization (RMA) number marked on the shipping package. You may obtain an RMA number from customer service at 800-926-0085, ext. 2227.

When calling TxPORT for an RMA, please have the following information available.

- Model number and serial number for each unit.
- Reason for return and symptoms of problem.

2. Installation

The 1061 is designed to be installed in a single unit housing module for standalone desktop use or for wall mounting. You may require additional cables and adapters when installing the unit. Ordering information is located on page 1-1.

Unpacking and Inspection

Upon receipt of your shipment, inspect the shipping container and contents. If the contents of the shipment are incomplete or, if there is mechanical damage or defect, notify TxPORT Customer Service. If the shipping container or cushioning material is damaged, notify the carrier and TxPORT immediately and make a notation on the delivery receipt that the container was damaged (if possible, obtain the signature and name of the person making delivery). Retain the packaging material until the contents of the shipment have been checked for completeness and the instrument has been checked both mechanically and electrically.

Port Connections

On the 1061, there are eight port connections located on the rear panel as shown in (Figure 2-1). These ports are the NMS, Expand, T1 In, T1 Multicast, and the Alarm/Power. On the front panel, there is one port connection. It is the supervisory port.

SUPV

The supervisory port, located on the front panel, allows you to access the 1061 menu screens through a VT100 interface.

NMS (IN/OUT)

These two ports connect the 1061 to the TxPORT EM8000 and to other 1061 units in a daisy chain. Each unit in the NMS chain must have a unique address, however, they all use the same NMS bit rate.

Expand (A/B)

These two 8-pin modular jacks jump the A or B inputs together providing additional input.

Table 2-B EXPAND Pinouts

Pin	EXPAND
1	Data Out
2	Data Out
3	Not Used
4	Data In
5	Data In
6	Not Used
7	Chassis Ground
8	Chassis Ground

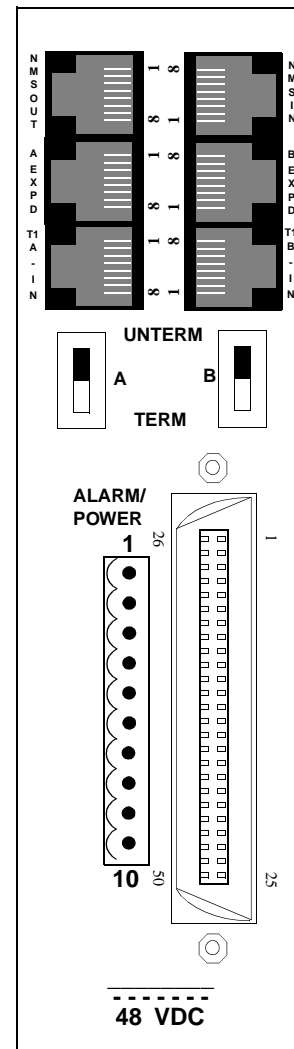


Figure 2-1 1061 Rear Panel

T1 IN (A/B)

These two 8-pin modular jacks are used for the T1 input signal as well as the output of each input. These two connectors output AIS with no input.

Table 2-C T1 IN Pinouts

Pin	T1 IN
1	Data In
2	Data In
3	Not Used
4	Data Out
5	Data Out
6	Not Used
7	Chassis Ground
8	Chassis Ground

T1 Multicast Port

The 50-pin female connector is used for the expanded outputs of either the *A* or *B* inputs per ANSI.T1 403-1988.

Table 2-D T1 Multicast Port Pinout

Tip	Ring	Function	Tip	Ring	Function
1	26	Output # 1	13	38	Output # 7
2	27	Input #1	14	39	Input # 7
3	28	Output # 2	15	40	Output # 8
4	29	Input # 2	16	41	Input # 8
5	30	Output # 3	17	42	Output # 9
6	31	Input # 3	18	43	Input # 9
7	32	Output # 4	19	44	Output # 10
8	33	Input # 4	20	45	Input # 10
9	34	Output #5	21	46	Output # 11
10	35	Input # 5	22	47	Input # 11
11	36	Output # 6	23	48	Output # 12
12	37	Input # 6	24	49	Input # 12
			25	50	Frame Gnd

Alarm/Power

The Alarm/Power is a ten-pin connector used for supplying power and providing alarm connections.

Alarm

The alarm connection operates in a normally closed mode (NC - opens on alarm) on pins 6 and 9 or in a normally open mode (NO - closes on alarm) on pins 6 and 10. The contacts are rated at 1.0 amp AC or 1.0 amp DC over 18- to 20-gauge wire (recommended).

External Alarm

These unpowered, isolated inputs indicate external alarms on inputs *A* and *B*. External alarm A is connected on pin 1 (+) and pin 2 (-). External alarm B is connected on pin 3 (+) and pin 4 (-). They are 10 mA current loops and must be powered externally.

Power

The power connection requires a -48 VDC power source capable of supplying 50 mA current. It supplies current to the 1061 cards and generates a circuit alarm. The -48 VDC lead is connected to pin 7 with the return lead connected to pin 5. The chassis ground lead is connected to pin 8. When connecting these pins, 18- to 20-gauge wire is recommended.

Table 2-E Alarm / Power Pinout

Pin	Function
1	External Alarm A (+)
2	External Alarm A (-)
3	External Alarm B (+)
4	External Alarm B (-)
5	48 VDC Return
6	Alarm Common
7	-48 VDC
8	Frame Ground
9	Normally Closed
10	Normally Open

Network Management

An NMS bus in the 1061 allows for network management from an 8000 Element Manager or an 8100A Site Controller as a remote or far end element via the SUPV port.

3. Configuration

The 1061 T1 Multicast can be configured through manual switch settings (hardware) and/or through a VT100 terminal connection (software).

All default options in this manual are underlined>.

Hardware Configuration

Hardware configuration is set using four toggle switches and two dual in-line package (DIP) switches. These switches allow you to configure simple applications. Refer to Figure 3-1 for switch locations. A removable configuration guide (45-00117) is included in the back of this manual.

Address

This 8-pin switch (S1) sets the NMS address of the unit. Valid addresses are 1 through 252. Address values 253 through 255 are reserved. Zero (or no channel) is the default.

NMS Bit Rate

S2-1 and 2-2 set the NMS bit rate.

Table 3-B NMS Bit Rate

kbps	S2-1	S2-2
19.2	B	B
9.6	A	A
2.4	B	A
1.2	A	B

SUPV Bit Rate

S2-3 and S2-4 set the Supervisory port bit rate.

Table 3-C SUPV Bit Rate

kbps	S2-3	S2-4
19.2	B	B
9.6	A	A
2.4	B	A
1.2	A	B

LSB

S2-5 sets the Least Significant Bit with respect to the duplex select. Refer to Table 3-D for setting information.

Duplex Select

S2-6 and S2-7 select the channel (1-12) that is full duplexed to the selected (A or B) input channel. No channel is selected on zero. Table 3-D displays the switch settings for the duplex select. The expansion settings (A EXPD, B EXPD, and A/B EXPD) full duplex back to their respective

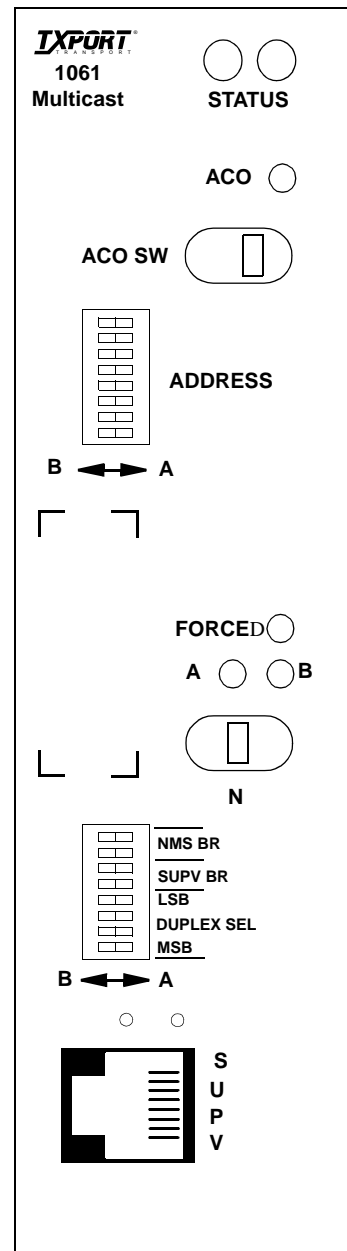


Figure 3-1 1061 Front Panel

T1 input lines. For example, the A EXPD setting full duplexes the return feed back to the T1 A input line; the B EXPD setting full duplexes the return feed back to the T1 B input line; and the A/B EXPD setting full duplexes the return feed back to the respective T1 A and T1 B input lines.

⚠ *When you bypass from an input line to an expansion line, you must have another 1061 unit connected to the expand line. Failure to have a connection will cause the signal to be interrupted.*

Table 3-D Duplex Select with LSB and MSB

	S2-5	S2-6	S2-7	S2-8
0	B	B	B	B
1	A	B	B	B
2	B	A	B	B
3	A	A	B	B
4	B	B	A	B
5	A	B	A	B
6	B	A	A	B
7	A	A	A	B
8	B	B	B	A
9	A	B	B	A
10	B	A	B	A
11	A	A	B	A
12	B	B	A	A
A Expd	A	B	A	A
B Expd	B	A	A	A
A/B Expd	A	A	A	A

MSB

S2-8 sets the Most Significant Bit with respect to the duplex select. Refer to Table 3-D for setting information.

Unterminate/Terminate Switch

The 1061 has two T1 inputs (T1 A and T1 B) for circuit redundancy in case of a service disruption. Two slide switches on the rear panel are used to terminate and unterminate the A or B input.

The unterminate connector switch is used when multiple 1061 units are daisy-chained together. The terminate connector switch is used when the 1061 unit is not daisy-chained.

Software Configuration

Software configuration is performed through a VT100 terminal emulation screen directly or through an 8000 Element Manager or an 8100A Site Controller.

Interface Start-up

Once a compatible terminal is properly connected to the unit, you can start a terminal interface session by sending a BREAK command to the unit (or by pressing <return> four times). If a password has been previously established, you must enter the correct password to continue the session.

The password is case-sensitive.

If you have forgotten your password, note the date and time shown on your screen and contact TxPORT Technical Support. You can establish a password through the *Utilities* screen on page 3-4.

Once a valid password has been entered, the Main Menu screen is displayed. If you are unfamiliar with the 1061 interface, commands, and menu structure, refer to Appendix A, *Terminal Interface*, for specific information concerning the menu structure and operator commands.



If you do not enter a keystroke for 10 minutes, the terminal interface automatically logs off.

Main Screen

The main screen allows you to set configuration parameters and monitor the status of Side A and Side B including the LOS, AIS, and external contact.

To send a new configuration to the unit, you must press <return> on one of the fields or exit the screen.

Side A Status

```

1061 MC 0.00/1.10                               1 0 6 1
----- MAIN -----
Side A Status: ACTIVE
Side B Status: STANDBY
Input Feed Mode: [NORMAL ]
Duplex Select:  [ 0 ]

Side A Side B Thresh
LOS Seconds:  69 69 ( 5)
AIS Seconds:  0  0 ( 5)
Ext Alarm:    OK  OK [OFF]
Reset Timer:  ( 30)

($1:1-8) NMS Address: 1
($2:1-2) NMS Port Rate: 19200
($2:3-4) Supu Port Rate: 19200
($2:5-8) Duplex Select: 0
Serial Num: 00000

Utility Screen
----- Messages -----
Local Screen
    
```

Figure 3-1 1061 Main Screen

This field displays the current status (or mode) of Side A. Options are Active, Forced (set through the software), Switched (set from the front panel), and Standby.

Side B Status

This field displays the current status (or mode) of Side B. Options are Active, Forced (set through the software), Switched (set from the front panel), and Standby.

Input Feed Mode

This field allows you to set the T1 input mode for the unit.

Normal - Input is received on a specified side. If that side goes into alarm, the unit switches to backup side and remains on this side until told to return to the specified side or the current side go into an alarm state.

Primary A - Input is received on Side A and switches to Side B only when Side A is in alarm. When Side A is cleared, input is once again switched to Side A.

Primary B - Input is received on Side B and switches to Side A only when Side B is in alarm. When Side B is cleared, input is once again switched to Side B.

Force A - Input is received on Side A only.

Force B - input is received on Side B only.

Duplex Select

Duplex select allows you to select the channel (1-12) that is full duplexed to the selected (A or B) input channel. No channel is selected on zero. Table 3-D displays the switch settings. The expansion settings (A EXPD, B EXPD, and A/B EXPD) full duplex back to their respective T1 input lines. For example, the A EXPD setting full duplexes the return feed back to the T1 A input line; the B EXPD setting full duplexes the return feed back to the T1 B input line; and the A/B EXPD setting full duplexes the return feed back to the respective T1 A and T1 B input lines.



When you bypass from an input line to an expansion line, you must have another 1061 unit connected to the expand line. Failure to have a connection will cause the signal to be interrupted.

LOS Seconds

A one second period in which the T1 received signal is interrupted. The default threshold for alarm is five.

AIS Seconds

One second period when all ones are received. The default threshold for alarm is five.

Ext Alarm

This field allows you to specify if the external alarm inputs should be monitored. Options are Off and On.

Reset Timer

This field allows you to set the amount of time it takes for the unit to clear an alarm. The default is 30.

NMS Address

This 8-pin switch (S1) sets the NMS address of the unit. Valid addresses are 1 through 252. Address values 253 through 255 are reserved.

NMS Port Rate

This field displays the current NMS port bit rate setting (S2-1 and S2-2). Displayed values can be 1.2, 2.4, 9.6, and 19.2 kbps. Refer to the section NMS Bit Rate on page 3-1 for setting information.

Supv Port Rate

This field displays the current supervisory port bit rate setting (S2-3 and S2-4). Displayed values can be 1.2, 2.4, 9.6, and 19.2 kbps. Refer to the section SUPV Bit Rate on page 3-1 for setting information.

Duplex Select

This field displays the current duplex select from the T1 input (S2-5 through S2-8). Refer to the section Duplex Select on page 3-1 or on page 3-3 for setting information.

Serial Number

This field displays the serial number specific to each individual unit.

Utilities Screen

The 1061 Utilities screen (Figure 3-2) allows you to establish the communication protocols including the COA connection, dial strings, and initialization/disconnection strings. The Utilities screen also allows you to establish a password and perform a maintenance reset on the unit

Element ID

This field allows the entry of an ASCII string (29 characters in length) which identifies the unit to the device receiving the alarm notification messages.

Call on alarm messages are reported in the following format in the DIAL or DIRECT modes only:

```
Element ID <CR> <LF>
Side A Alarms: alarms <CR> <LF>
Side B Alarms: alarms <CR> <LF>
```

where (alarms) is a string consisting of some or all of the identifiers LOS, OOF, RAS, AIS, UAS, ERRS, or NONE. The following is an example:

```
Joesunit
Side A Alarms: LOS
Side B Alarms: OK
```

The user programmable Element ID string is transmitted first to allow the COA function to send a message with a specific meaning to some host (such as a log on message).

COA Connection

This field controls the remote alarm reporting. ASCII alarm reporting through the supervisory port is independent of TRAP alarm reporting. The ASCII alarm report type is set by the following choices:

DISABLED - Alarm reporting is disabled.

DIAL - Sends reports through an attached AT command set compatible modem connected to the SUPV serial port,

which must dial out to a remote modem. The message format is described in the Element ID field.

DIRECT - Sends reports to a printer or terminal connected directly to the supervisory port.

Primary Dial String, Secondary Dial String

These fields are ASCII strings for the primary and secondary call on alarm phone numbers used in the DIAL mode. The strings must NOT include the ATDT command prefix.

The unit attempts three times to connect using the primary number. If all three attempts fail, it will attempt three times to connect using the secondary number (if it is not blank). If the secondary number fails, the unit waits five minutes and then attempts to communicate with the primary number again. When a connection is detected, the unit outputs the notification message (as described in the Element ID field) and then disconnects.

Initialization String

The modem initialization string is entered in this field. Refer to the modem's documentation for further information. The default setting is ATEQ0V1.

Disconnect String

This field identifies the character string to be output when the modem session is terminated. The default setting is ATH.

New Password

This field allows entry of a password of up to 10 characters. An empty string (carriage return only) may be entered to disable the password feature. After <return> is pressed, the new password is activated and is no longer visible. Therefore, type carefully when entering a new password and verify before pressing <return>. When the terminal interface is exited and later reactivated, this password must be entered exactly to gain access. If the wrong password is entered, the following message will appear:

```
Incorrect Password; Please Enter Again.
```

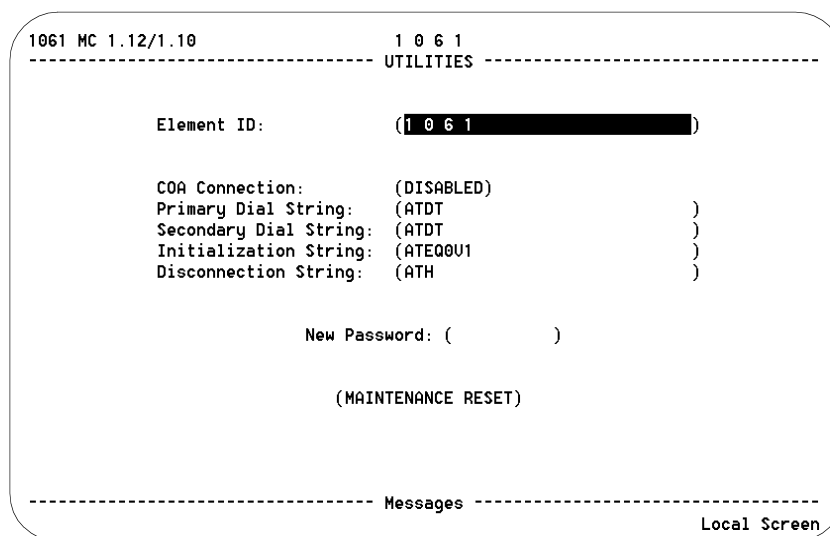


Figure 3-2 1061 Utilities Screen



Do not exit the terminal interface program until the password procedure is fully understood. If a password has been specified, it must be typed exactly to reenter the program.

Maintenance Reset

This field will clear all user selectable parameters, performance registers, passwords, and alarms but saves the IP Address. All alarm threshold parameters will be reset to default values. The unit reloads start-up configuration settings from the default parameters stored in ROM. Pressing <return> on this field brings up the following warning:

DELETE ALL DATA AND RESTART UNIT?

(NO!) (YES)

4. Operation

This chapter describes the operating features of the 1061 including LED indicators and option switches.

Status Indicators

There are two status indicators located on the top of the front panel.

Green Illuminates when the unit is powered.

Red Illuminates when an alarm exceeds thresholds or there is a unit failure.

ACO Switch/Indicator

The ACO switch controls the alarm relay circuitry. When the switch is *On* (toggled to the left), the circuitry is deactivated, however, the alarm indicator still functions normally.

The amber alarm cutoff (ACO) indicator illuminates when the alarm relay contacts are forced to the *No Alarms* condition (ACO switch is *On*).

Force Switch/Indicators

The Force selector switch forces the input to either the A input (toggle left) or B input (toggle right). NMS commands will not override this switch. When not in use, the switch should be placed in the center (N-normal).

The amber Force indicator illuminates when the Force Select switch is in either the A or B position.

The green A and B indicators illuminate indicating which input (A or B) is being broadcast to the ports. If both ports have input, only the selected port's indicator illuminates.

Activity Indicators

The two red activity indicators located just above the SUPV connector allow you to identify transmission flow in the unit. The left light indicates supervisory port transmission. The right light indicates NMS bus transmission.

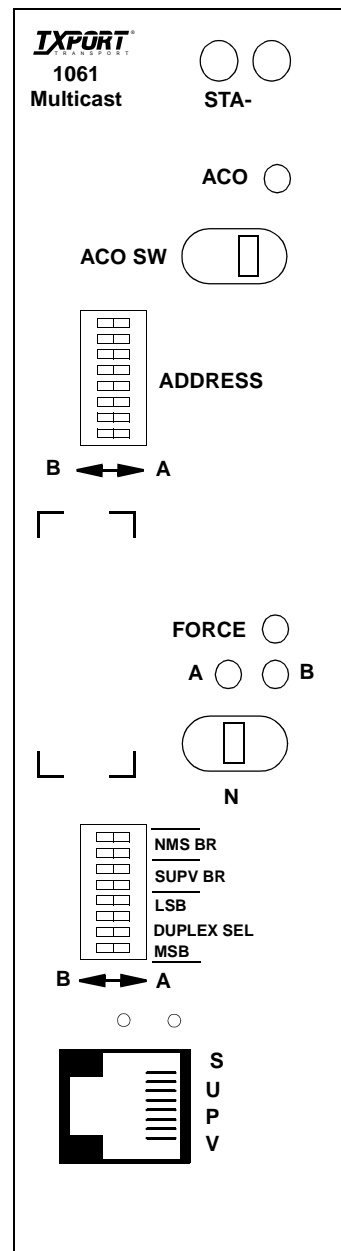


Figure 4-1 1061 Front Panel

A. Terminal Interface

This chapter describes the screens structure and menu controls for the 1061 T1 Multicast terminal interface. The interface is a firmware application program embedded inside the unit.

It requires an ANSI compatible VT100 terminal (ASCII), or a computer running an ANSI terminal emulation program. The terminal interface uses ASCII BREAK and ESCAPE functions, which are implemented differently with the various terminal emulation programs.

Screen Components

Terminal interface screens have several components common to all screens (Figure A-1).

Device Type and Revision

The device type (such as 1061) and the revision control numbers are shown in the upper left corner. The first number is the hardware revision and the second number is the software revision. Information is displayed for the near end unit (connected directly to the terminal) on the top line. Refer to this information when contacting the factory with inquiries.

Element ID

Below the header (1061), the Element ID is displayed. Refer to page 3-4 for information on setting the Element ID.

Menu Title

The menu title (second line, center) denotes the general classification of functions currently accessible by the user (such as MAIN or UTILITIES).

Messages

Diagnostic messages may be displayed at the bottom of the screen.

Cursor Controls

The terminal interface utilizes a highlighted cursor to make selections from menus and select fields within screens to be operated on. The cursor is moved in different ways, depending on the terminal emulation program used. Most programs allow use of the <tab> and <shift-tab> keys. Others allow use of the arrow keys. Once a field is highlighted, it is manipulated as described in Section .

For keyboards which do not have these standard keys or have only some of them, an alternate set of cursor control commands is provided. Each command is performed by pressing a letter key while holding down the <Ctrl> key.

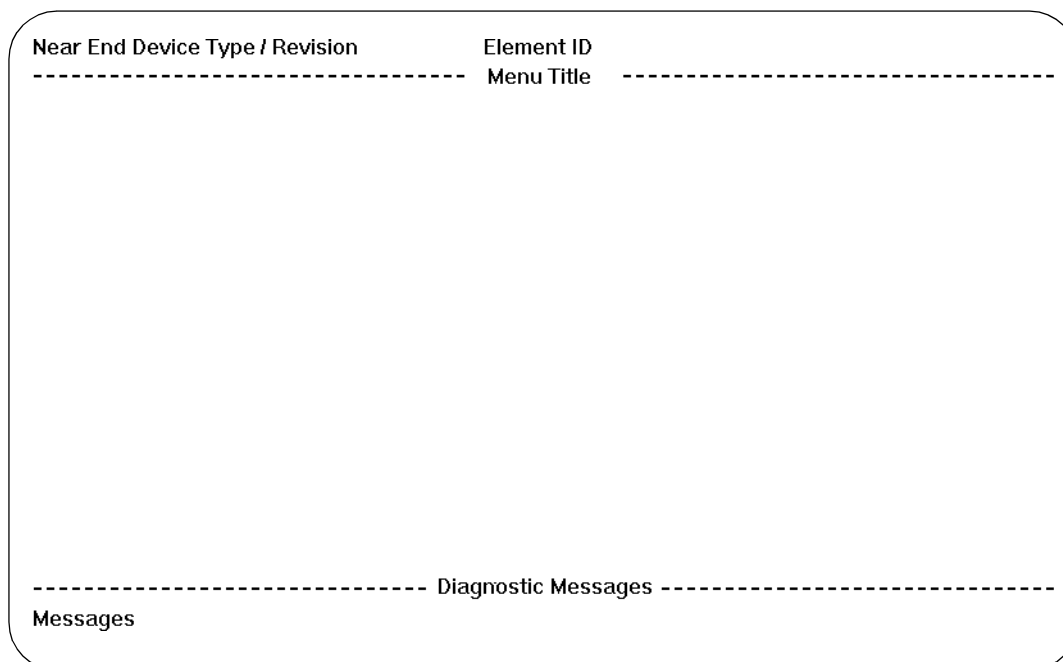


Figure A-1 Terminal Interface Layout

Alternate commands may be freely mixed with the keyboard commands at your discretion.

Table 2-B Keyboard / Alternate Commands

Keyboard Command	Alternate Command
< left arrow >	< Ctrl - S >
< right arrow >	< Ctrl - D >
< up arrow >	< Ctrl - E >
< down arrow >	< Ctrl - X >
< backspace >	< Ctrl - H >
< delete >	< Ctrl - Z >

Field Types

Each screen is made up of fields. The two basic field types are user-selectable and display-only. If the highlighted cursor can be moved to a field, it is a user selectable field. All other fields are for display only. User selectable fields allow for changes to be made or commands to be executed.

Fields without brackets or parenthesis are display-only. They cannot be changed on the screen. Most user selectable fields are enclosed in brackets or parenthesis and are described in the following paragraphs.

Fields enclosed in brackets [] offer the user a list of selections from which to choose. The selections may be toggled by pressing the <spacebar>. Each time it is pressed, a new item appears. When the appropriate choice is displayed, press <return> to select it.

Fields enclosed in parenthesis () are manipulated by one of the following two methods:

1. Pressing <return> on such fields as (Reset) and (Start Test) simply execute the function.
2. The most common type of field in parenthesis accepts typed input in the form of letters and/or numbers. Typing characters when the field is highlighted causes the current entry to be replaced with the new characters. To edit an existing entry rather than replace it, press the <right arrow> key to move the cursor to the point that needs editing. Characters may then be inserted or deleted. Typed data is always inserted rather than typed over. If the field is full, though, at least one character must be deleted to add another.

Many fields of this type may also be toggled by pressing the <spacebar>. Other fields are range checked, where the user is not allowed to exit with an illegal value set.

Any screen may be redisplayed (or refreshed) by pressing <Ctrl - U>. Any changes to fields on a screen, that have not been activated by pressing <return>, will be discarded.

Menu Structure

The Main Menu screen lists the functional user accessible menus. To activate a menu, highlight the desired selection and press <return>. To exit this or any subsequent menu, press <esc>. If the Main Menu is exited, the terminal interface program terminates. This is a valid way to end a session. If any other menu is exited, the previous screen is returned. The menu structure (Figure A-2) shows all the screens accessible from the Main Menu.

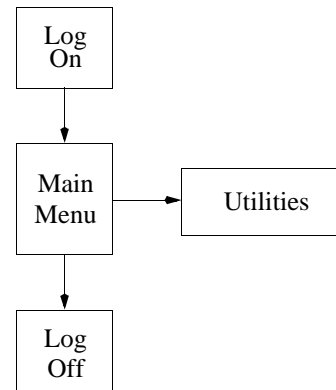


Figure A-2 Terminal Interface Menu Structure



If you do not enter a keystroke for 10 minutes, the terminal interface logs off automatically.