



**Support and Setup
Documentation
for
2043 Ethernet Module**

Offline Mode

A terminal in **Offline mode** is “off-line” or physically disconnected from the communications network. Offline mode executes a sequence of internal tests. If all tests pass in Offline mode, the terminal displays informational messages and arrives at a prompt for entry into Setup Mode. Setup Mode is the first selection of the five modes available within Off line mode.

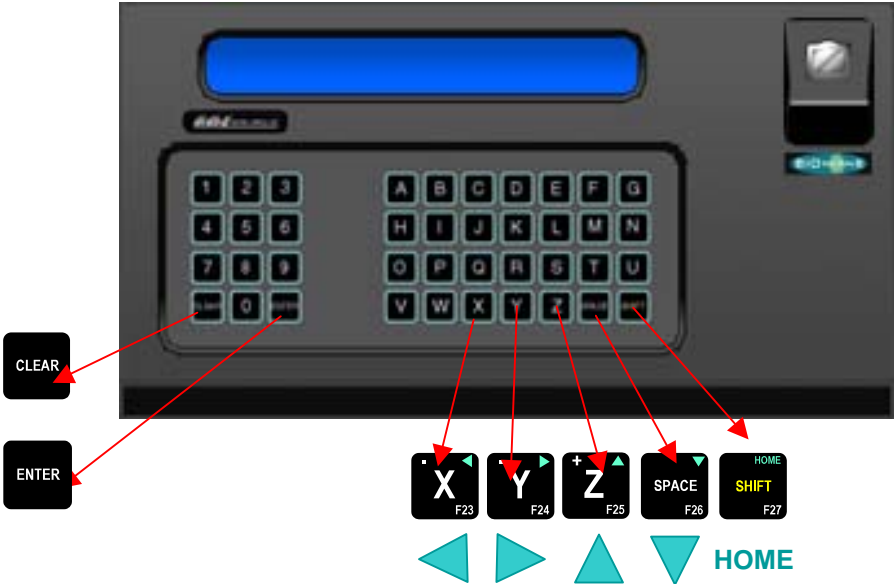
- **Setup Mode** - Set terminal parameters for communications and reader type.
 - **Quick Check** - General terminal checkout utility.
 - **Diagnostics** - Self test diagnostics and network communication test.
 - **Utilities** - Modem, Ethernet, RF, Token Ring configuration and Wiegand analysis.
 - **Clear RAM (Restart Mode)** - Clear all data and download from RAM.
-
- *To place the terminal into Offline Mode*
 1. Unlock the terminal by turning the key counterclockwise.
 2. Remove the top of the terminal from the wall mount. Move the Online/Offline switch on the communications module to the *Offline* position.
 3. The display will briefly show several informational messages and will then display the Setup Mode message.
 - *To change the Mode*
 4. While in Offline Mode, use the up arrow key to scroll to the various modes, and press E Enter to select a specific mode.

Navigation keys work differently depending on the current mode, and are explained in the next section.

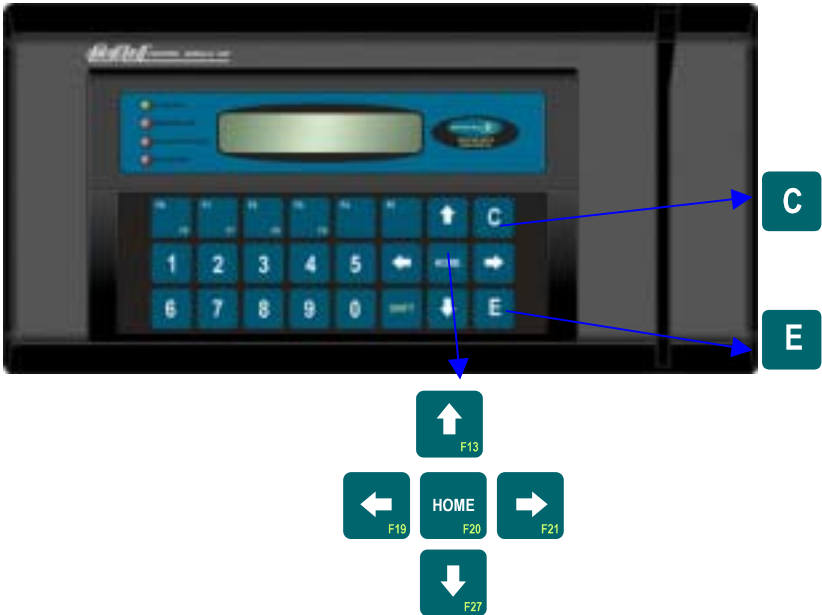
SaveTime® Navigation Keys

While in Offline mode the navigation keys allow access to each of the modes provided by the terminal. Use the ARROW keys, up ↑ or down ↓, to scroll to the mode, pressing E (Enter) selects the mode. The HOME key refreshes back to setup and the Clear and Enter keys will clear current information, pressing the enter key will accept any changes.

2015 KEYPAD



2016 KEYPAD



Note: Some custom overlays and logos may obscure or cover the keypad navigation keys. The navigation keys pictured above on the SaveTime® terminals are always positioned in the same location, regardless of the overlay.

Ethernet Communications Module – Ethernet Utilities

Press **ENTER** to enter the Utility or H to escape.

The terminal will now display that it is searching for a LINC module: You will see the RXD and TXD flash on the LINC module.

Three results can occur:

1. If control module P/N 2052-xxx is installed in your wallmount, or if certain readers are connected to the LINC wand port the LINC module will not be found. Remove the module or reader and connect the Terminal directly to the 2043 LINC module and try again.
2. LINC modules that are detected from the setup menu and have changed via Telnet can produce the following message.
3. New terminal firmware will detect the setting change between the terminal and the LINC module and will proceed to display the following.

TERMINAL IP

To change the IP address, use the keypad to type in a new value, or use the **↑↓** arrows. Use the **←→** arrows to move between the IP octets.

ENTER to accept the IP address

TERMINAL PORT

To change the **TERMINAL PORT** use the keypad to type in a new value, or the **↑↓** arrows to increment or decrement existing Terminal Port value or **C** to clear to 00000.

The pre-set value of 03001 for the Terminal Port is a CMI recommended configuration. Do not change this value unless your application requires it.

ENTER to accept the **TERMINAL PORT** value.

```
UTILITIES                               ↑↓EH
Ethernet Utilities?
```

```
UTILITIES
Reading Linc Module
```

```
Linc Not Detected
```

```
LINC CHANGED
```

```
Terminal IP                             #CE←→↑↓H
192.168.0.201
```

```
Terminal IP                             #CE←→↑↓H
192.168.0.201
```

```
Terminal Port                            #C↑↓H
03001
```

Ethernet Communications Module – Ethernet Utilities

SUBNET MASK

To change the SUBNET MASK, use the ↑↓ arrows to move between the octets. Contact your Network Administrator for a valid Subnet Mask. The configured Subnet mask corresponds to standard class A settings.

Subnet Mask	CE↑↓H
255.255.255.000	

GATEWAY IP

To change the GATEWAY IP address, use the keypad to type in a new value, or the ↑↓ arrows. Use the ←→ arrows to move between the IP octets. Contact your Network Administrator for a valid Gateway IP address or if this is a required parameter.

Gateway IP	#C← →↑↓H
000.000.000.000	

ENTER to accept the Gateway IP address. (000.000.000.000 is the valid entry for no Gateway.)

Note: Host IP and Host Port settings should not be changed unless the LINC module is to be switched to UDP mode.

HOST IP

To change the HOST IP address, use the keypad to type in a new value, or the ↑↓ arrows. Use the ←→ arrows to move between the IP octets.

Host IP	#C← →↑↓H
192.168.000.062	

Do not change this value unless UDP mode will be set. ENTER to accept the HOST IP address.

HOST PORT

To change the HOST PORT, use the keypad to type in a new value, or the ↑↓ arrows.

Host Port	#C↑↓H
00000	

Do not change this value unless UDP mode will be set. ENTER to accept the HOST PORT.

Ethernet Communications Module – Ethernet Utilities

TCP/UDP

To change TCP/UDP MODE, use the ↑↓ to select the mode.



ENTER to accept the TCP/UDP MODE.

FLUSH MODE

The flush mode should be set to standard if the menu offers it.



MAXIMUM SPEED

The maximum speed availability will be detected when the Linc module is read. New versions of the Linc module have the 10mb and 100mb speed options. Older Linc modules will display 10mb speed for several seconds and cycle to the Update Linc option.



UPDATE

To update the LINC module with these changes, press E, (ENTER.)



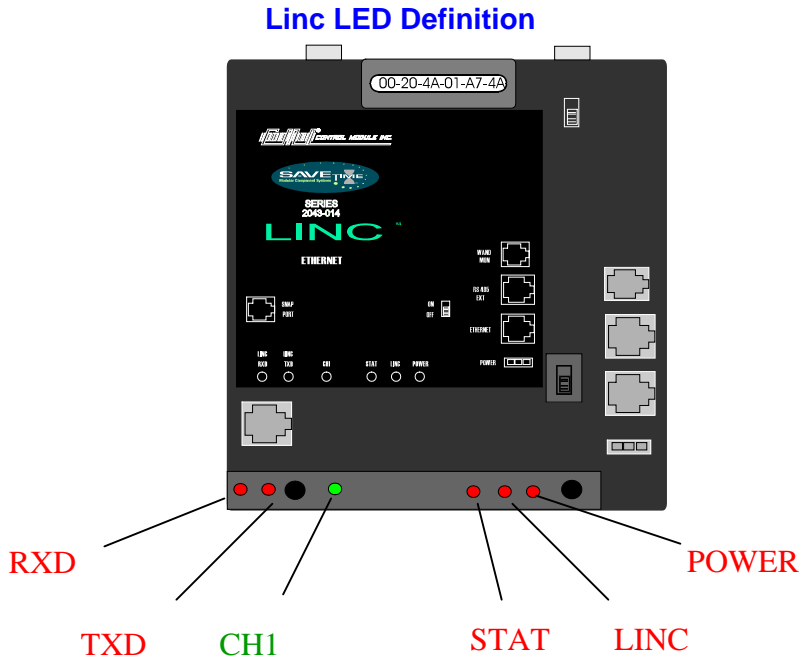
To disregard the changes, press C, (CLEAR.)



Note: Wait until the display shows the main “SETUP MODE?” screen before throwing the switch to the ONLINE position.

Reference

Ethernet LINC Module



RXD	Receive data from Host to CMI terminal
TXD	Transmit data from the CMI terminal to the host
CH1	Channel status ON – not blinking – Host NOT connected to LINC module. ON – blinking – Host Connected to LINC module.
STAT	Status LED OFF not blinking – LINC module is OK, no defects. ON – not blinking – network failure. CH1 is used for failure codes. 4x Network connection is faulty. This code only appears after power up. ON – blinking – diagnostic failure. CH1 is used for failure codes. 1x Eprom checksum error. 2x RAM error 3x Network controller error (Token Ring) 4x EEprom checksum error or bad 5x IP address already used on network.
LINC	Valid Network Connection
POWER	ON when power is applied

LED Combinations

- POWER, LINC, CH1** are ON – Normal operation host not connected.
- POWER, LINC, CH1**(flashing) are ON – Normal operation connected to host.
- RXD, TXD** – blink – Communication between host and CMI terminal.
- STAT**(flashing) – LINC module has a problem.
- STAT** – ON – LINC module encountered network problem.