

LineShare PRO

OPERATOR'S GUIDE



Installation, Warranty and Service Information



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INTRODUCTION TO THE LINESHARE PRO

The LineShare Pro PRO is a telephone line management system that directs incoming phone calls to 1 of 4 destinations. It is capable of transferring calls in virtually many configurations of telephone devices including the following:

- Credit card authorization terminal
- Security alarm and monitoring system
- Money order dispensing system
- Paging Systems
- Fax/modem cards
- Telephones (phone systems)
- Answering machine
- Fax machines
- Call diverter
- All-in-one printer-fax-scanner
- Energy management system
- Flow monitoring system
- Time and attendance system
- Fluid storage system
- Point-of-sale terminal
- Remote diagnostic system

Before You Begin

- Please read this guide and choose the installation which is best for your application.
- Unpack and check for the items shown below. If any of these items are missing or damaged, contact the dealer where you purchased the unit or call Customer service.

Note About Telephone Company Services

If you currently use or plan to use any of these services, please note the following:

- **Call Waiting:** Fax machine and modem transmissions may be disrupted by the call-waiting signal. Call Waiting can be disabled on a single call by pressing * 70 before dialing a phone number.
- **Call Forwarding:** Is compatible only when used in conjunction with Distinctive Ring service and the number of rings before the call forwarding occurs is adjustable. Contact Technical Support for installation assistance.
- **Phone Company Voice Mail:** Is compatible only when used in conjunction with Distinctive Ring service. Contact Technical Support for installation assistance.

INSTALLING THE LINESHARE PRO PRO

Selecting Your Set-Up



The LineShare Pro 104 is a single line device that can be installed on a single telephone line with or without extension phones. This line may be part of a multi-line telephone system.

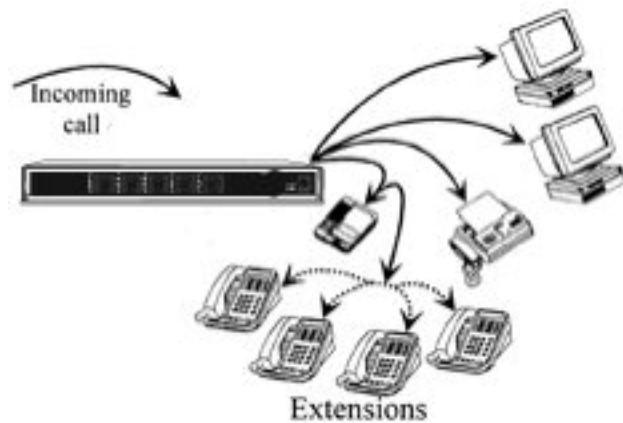
The LineShare Pro 104 has 2 operating modes, Automatic and Semi-Automatic. It can be connected in one of the following three configurations shown below:

Typical Installation Configurations



Automatic operation (calls are answered and processed for the entire location)

NOTE: This application requires installation at the DEMARC. See "Installation at the DEMARC" for more information.



Answers... the call automatically.

Transfers... all calls to the pre-designated telephone device(s) according to the tone(s) received from the calling telephone device. If telephones are connected to the LineShare Pro 104, calls without tones will transfer directly to the designated telephone.



Automatic operation (calls are answered and processed where the LineShare Pro 104 is located)



Answers... the call automatically.

Transfers... calls to the predesignated telephone device(s) according to the tone(s) received from the calling telephone device. If telephones are connected to the LineShare Pro 104, calls without tones will transfer directly to the designated telephones.



Semi-Automatic operation (all phones in the home ring)

Waits... for you or your answering machine to answer the call on the Primary port or an extension not directly connected to the LineShare Pro 104.

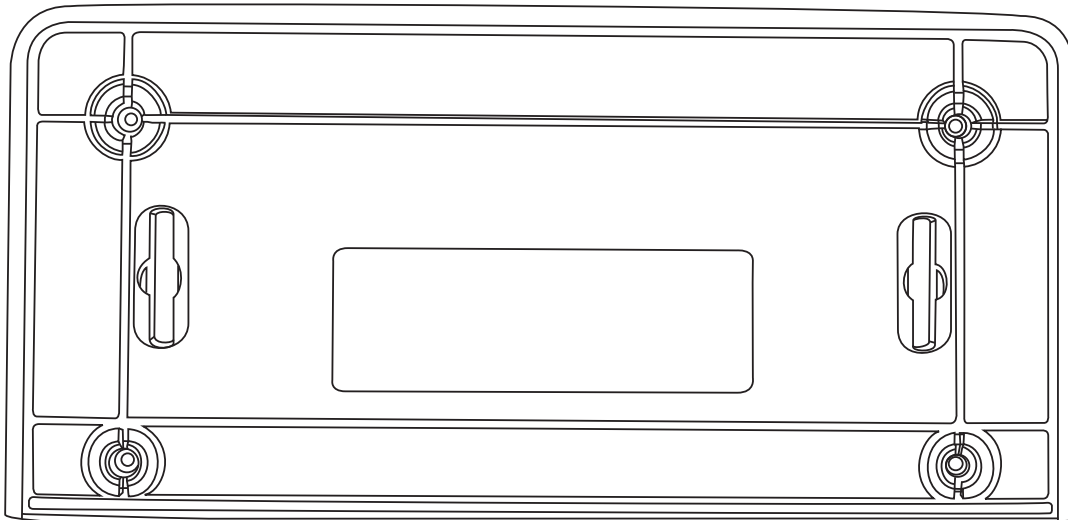
Transfers... fax calls to the fax machine if a fax tone is present, or to computer modems if access codes are used.

Once you select your set-up, proceed with connecting the LineShare Pro 104. For more information on operating procedures, see "Using the LineShare Pro 104."

Wall Mounting the LineShare Pro PRO

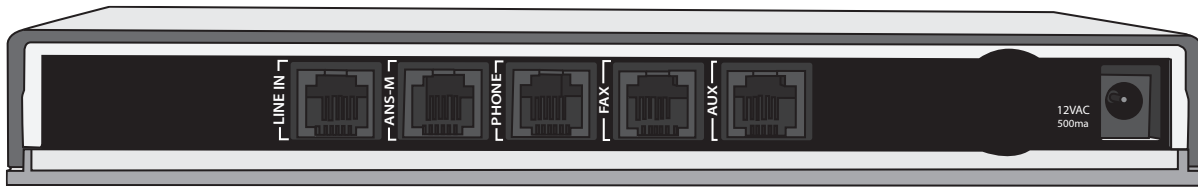
The LineShare Pro 104 may be mounted on a wall with the connected telephone line cords above or below the unit.

NOTE: Do not place the LineShare Pro 104 in close proximity to any peripheral equipment (approximately 2 feet from all electronic equipment).



Ports on the LineShare Pro 104

The rear panel of the LineShare Pro 104 includes 5 modular ports and a power input port, as shown:



A typical installation (voice, fax, modem) would connect telephone equipment as follows:

1. Connect the provided modular line cord from a standard telephone (wall) jack to this port.
2. The LineShare Pro 104 will transfer all voice calls to port P1. (Depending on the installation, a single line telephone, an integrated phone/answering machine, multiple phones, or a telephone system can also be connected to this port.)
3. Connect your fax machine to port P2. A computer modem or fax/modem can connect to this port rather than a fax machine.
4. A credit card terminal or fax/modem can connect to port P3 to enable the LineShare Pro 104 to transfer a modem call with the appropriate transfer codes.
5. Another telephone device may be connected to port P4 to enable the LineShare Pro 104 to transfer a call with the appropriate transfer codes.

Installation on a Telephone System

This drawing illustrates telephone devices connected to the LineShare Pro 104 for a telephone system; follow the same procedures for a mini-telephone system. For the LineShare Pro 104 to operate properly, it must be installed before the telephone lines are connected to the telephone system. Connect the other equipment as needed.

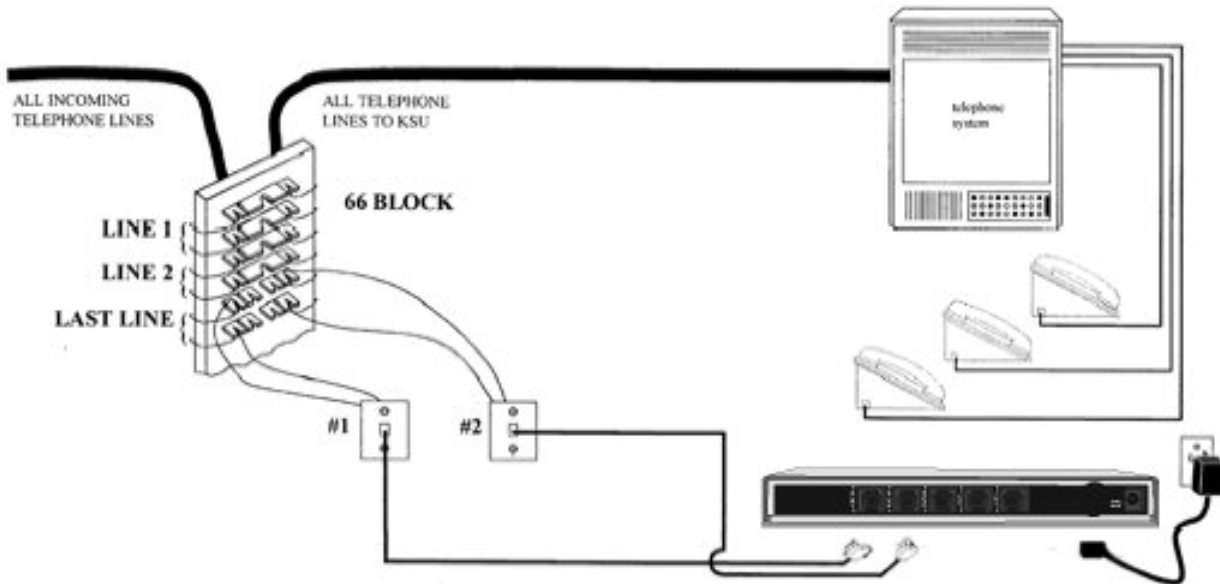
All equipment on that line (telephone system, fax, computer modem, and so on) must connect directly to the LineShare Pro 104.

CAUTION: Do not plug the LineShare Pro 104 into a telephone system phone jack. You may damage the phone system or the LineShare Pro 104.



Installation on a Telephone System Using a 66 Block

This illustration shows the LineShare Pro installed on the last telephone. Calls on this line are processed by the LineShare Pro before going to the telephone system.

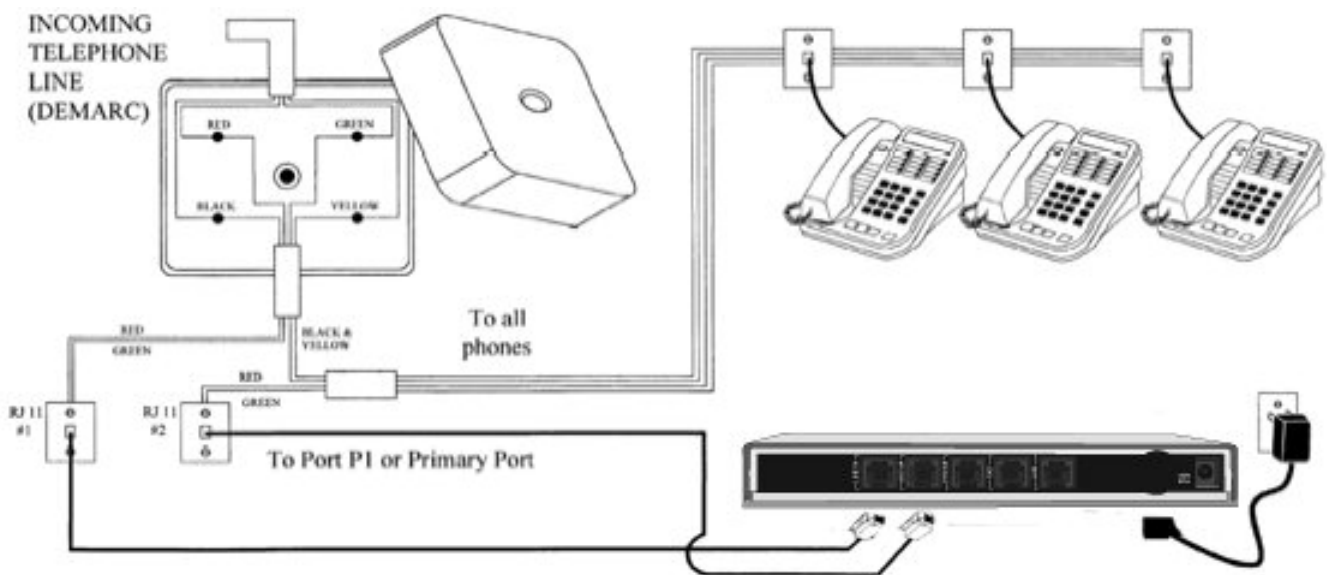


Installation at the DEMARC

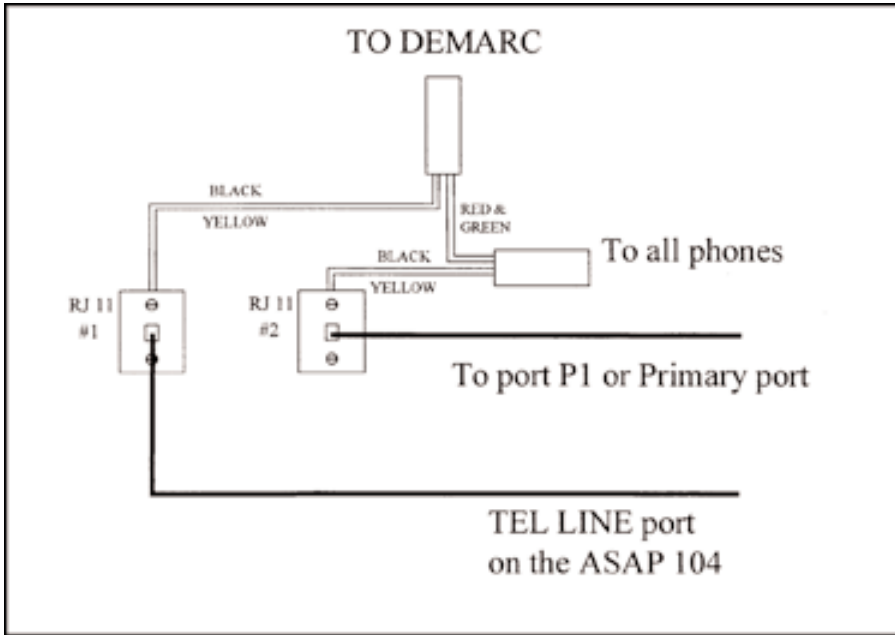
SINGLE LINE INSTALLATION ON LINE 1

For use in the Automatic mode to allow the LineShare Pro 104 control over all phones on the line.

The following diagram shows an installation at the point of demarcation (DEMARC) on line 1. Once connected in this configuration, the telephones will not ring on an inbound call if the LineShare Pro 104 transfers the call to port P2, port P3 or port P4. Only calls that do not produce transfer tones will ring the telephones.



SINGLE LINE INSTALLATION ON LINE 2



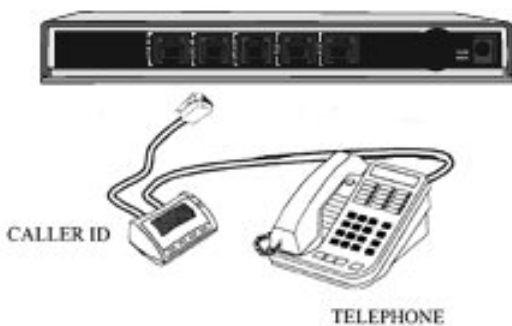
Installation With a Single Telephone Line

The following diagram shows a typical installation on a single line telephone.

This installation is for use in the Semi-Automatic mode or for the Automatic mode with a phone connected to the Primary port (port P1 default). (Extension phones not connected to the Primary port in the Automatic mode will ring only 1 time on an inbound call. See "Installation at the DEMARC" for an alternate installation.)



NOTE: If you have a stand alone Caller ID device, simply plug the device into the Primary port (port P1 default), and then plug the phone into the Caller ID.

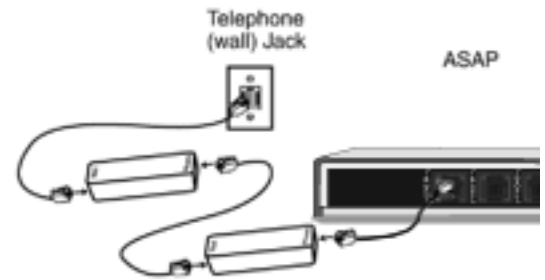


The factory setting for Caller ID operation is ON. See "Programmable features of the LineShare Pro 104" for more information.

Connecting the LineShare Pro 104 to a Phone Line with DSL service

Although the LineShare Pro 104 features advanced signal filtering, one or more DSL filters may be required – available from most consumer electronics stores. Connect your filters as shown:

1. Connect the filter(s) together in series. Be sure to install the “Wall” and “Phone” connections of the filter properly.
2. Plug one end of the connected filters into the telephone (wall) jack.
3. Plug the other end into the LINE IN port on the LineShare Pro 104.



The filters keep the DSL signal from interfering with the operation of the LineShare Pro 104.

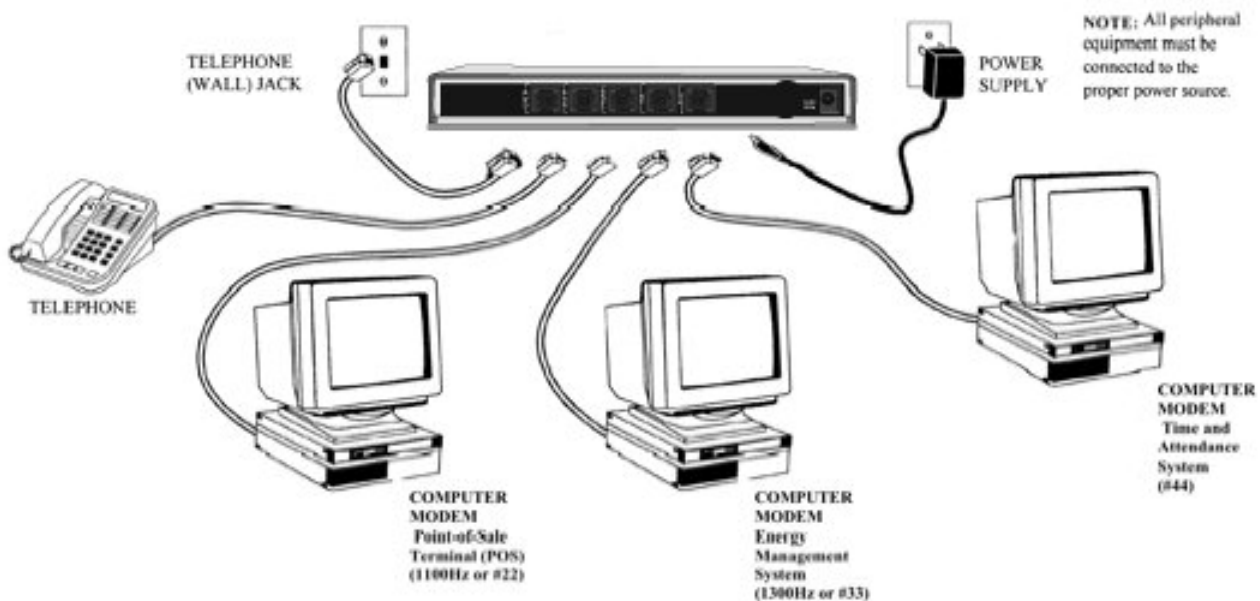
Connecting telephone equipment to the LineShare Pro 104

This section illustrates 2 typical applications using the LineShare Pro 104. The LineShare Pro 104 is capable of routing calls to any data device, system or system of devices that can answer a standard phone company ring signal.

If your application requires additional information or support, call our toll-free, Technical Service team at: 800.437.4966.

Application Number 1:

Typical Connection for a Retail Store



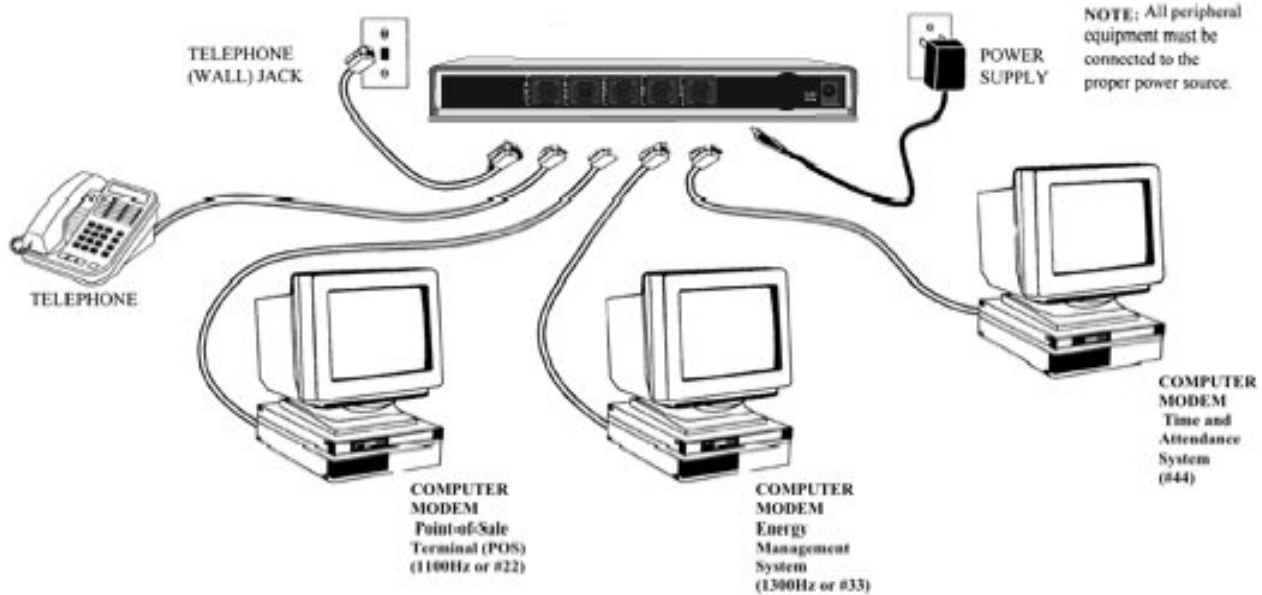
In this application, 3 different computers/systems connect to the LineShare Pro 104, (POS, Energy Management, and Time and attendance) as well as a telephone.

This allows inbound and outbound telephone calls during normal business hours, and automated polling of the connected data devices after hours. Access to the data devices is accommodated by access codes sent from the calling computer system. The LineShare Pro 104 can also be configured (on all ports or individually) to ignore inbound calls depending on application requirements. Also manually reset the LineShare 3.1

to 6 rings by performing any of the following steps:

Application Number 2:

Typical Connection for a Small or Home Office



The following diagram shows a typical installation with a single line telephone. This application allows incoming and outgoing voice and fax calls, as well as to separate computer modems. One of the computer modems in this application is used for the INTERNET and E-mail access, while the other is a dedicated Bulletin Board System (BBS).

Calls will be routed to the telephone equipment by the following tones:

- port P1 - silence, or # 1 1
- port P2 - 1100Hz CNG tone or # 2 2
- port P3 - # 3 3
- port P4 - 1300Hz Modem calling tone or # 4 4

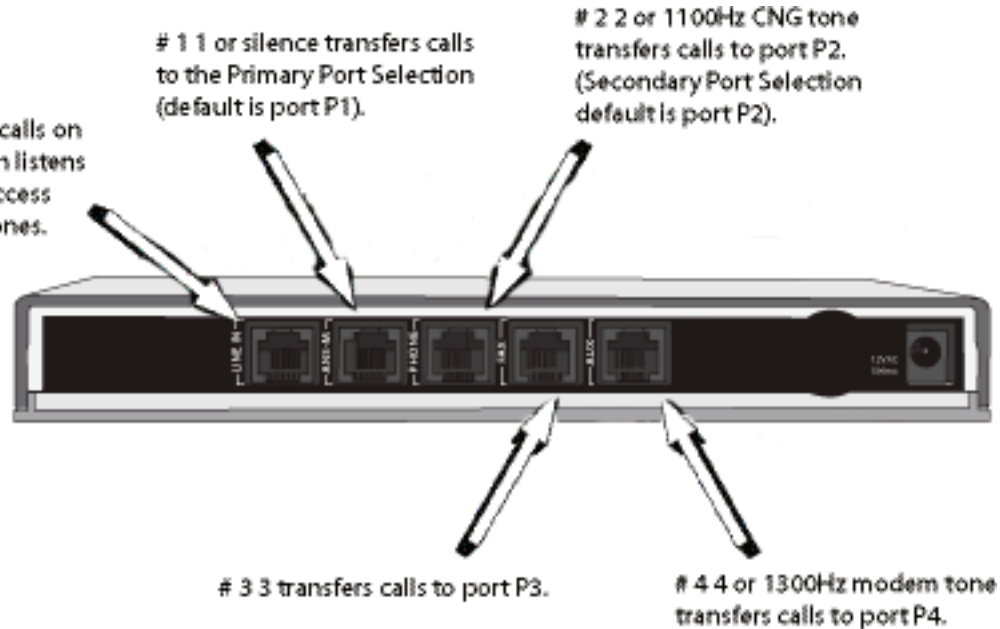
In this application, the LineShare Pro 104 will provide Emergency Call Override to the Primary port (port P1 is default) if the phone company three-way calling has been activated. See the section "Emergency Call Override" for more information.

See "Operating Modes" for more information about how the LineShare Pro 104 processes calls.

Operating Modes

Automatic Mode

The LineShare 4.1 answers incoming calls on the first ring. It then listens for 4 seconds for access codes or routing tones.



NOTE: The access codes and routing tones can be changed through programming.

The LineShare Pro 104 will ring the Primary port up to 6 times (Rings to port P1 in this example). If the call remains unanswered after 6 rings, the LineShare Pro 104 transfers (Automatic No Answer Transfer) the call to the Secondary port. The Automatic No Answer Transfer feature accommodates fax machines that do not produce a CNG tone, and can be turned off through programming.

If a device connected to the Primary port answers a call, the LineShare Pro 104 will disable the Single Tone Detection feature. Then, only DTMF (tone) transfers using access codes are allowed as follows:

- port P1 # 1 1 tone
- port P2 # 2 2 tone
- port P3 # 3 3 tone
- port P4 # 4 4 tone

The above access codes are the factory settings and may be changed by the user.

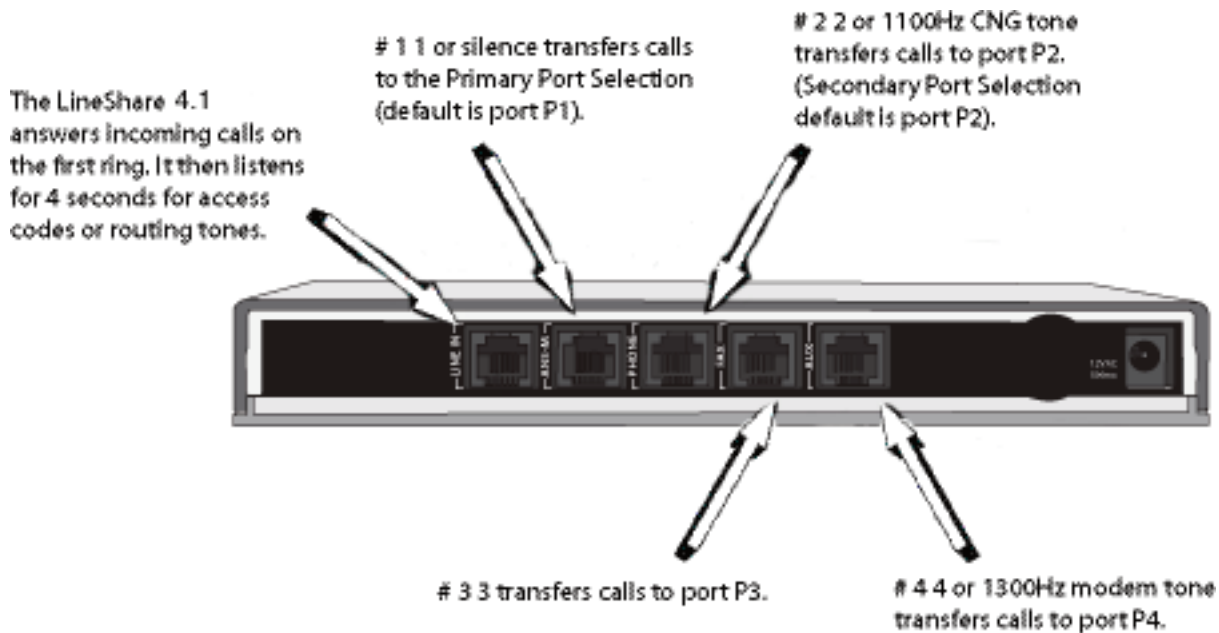
Any time a call is transferred to another port, the port that is off-hook with the call is the only port that will be allowed to transfer the call. The originating port will receive a busy tone once the transfer occurs.

To accommodate faxes that do not produce CNG tones, the Automatic Primary Port Transfer feature can transfer a call to another port (Secondary Port Selection) when using an answering machine with the LineShare Pro 104. The factory setting for this feature is OFF, and uses the Primary Port Transfer Timer to set parameters for transfer as described later in this guide.

The factory setting for the LineShare Pro 104 is the Automatic mode. To change the operating mode, see "Programmable features of the LineShare Pro 104" for more information.

NOTE: In the Automatic mode, any phone(s) not connected to an LINESHARE PRO port will only ring 1 time (Rings to Answer Call) on inbound calls and do not have complete access to the phone line unless Extension Detection is turned ON.

Semi-Automatic Mode



NOTE: The routing tones and access codes can be changed through programming.

The LineShare Pro 104 will ring the Primary port up to 6 times (Rings to port P1 in this example). If the call remains unanswered after 6 rings, the LineShare Pro 104 will transfer (Automatic No Answer Transfer) the call to the Secondary port. The Automatic No Answer Transfer is designed to accommodate fax machines that do not produce a CNG tone, and can be turned off through programming.

If a device connected to port P2, P3 or P4 answers a call only tone transfers are allowed.

- port P1 # 1 1 tone
- port P2 # 2 2 tone
- port P3 # 3 3 tone
- port P4 # 4 4 tone

Any time a call is transferred to another port, the port that is off-hook with the call is the only port of the LineShare Pro 104 that is allowed to transfer the call. The originating port will receive a busy tone once the transfer occurs. Call transfers may also come from the remote (i.e. calling telephone, or an extension phone not connected to the LineShare Pro 104).

To accommodate faxes that do not produce CNG tones, the Automatic Primary Port Transfer feature can transfer a call to another port (Secondary Port Selection) when using an answering machine with the LineShare Pro 104. The factory setting for this feature is OFF, and uses the Primary Port Transfer Timer to set parameters for transfer as described later in this guide.

The factory setting for the LineShare Pro 104 is the Automatic mode. To change the operating mode, see "Programmable features of the LineShare Pro 104" for more information.

Distinctive Ring Service

The phone company's Distinctive Ring service (DRS) is offered in most areas across the U.S. Phone companies offer this service under various names; check with your local phone company for details (service activation required).

When a second, third or fourth phone number is added to a single line, the LineShare Pro 104 processes calls without depending on access codes or transfer tones.

The factory default for Distinctive Ring Detection is OFF. When turned ON, the LineShare Pro 104 will process the additional phone numbers (ring styles) as follows:

port P1- - - standard ring

port P3- - - three-burst ring (short-short-long)

(short-short-short)

(long-long-long)

(long-short-short)

(short-long-long)

port P2- - - two-burst ring

port P4- - - three-burst ring (short-long-short)

(long-short-long)

(long-long-short)

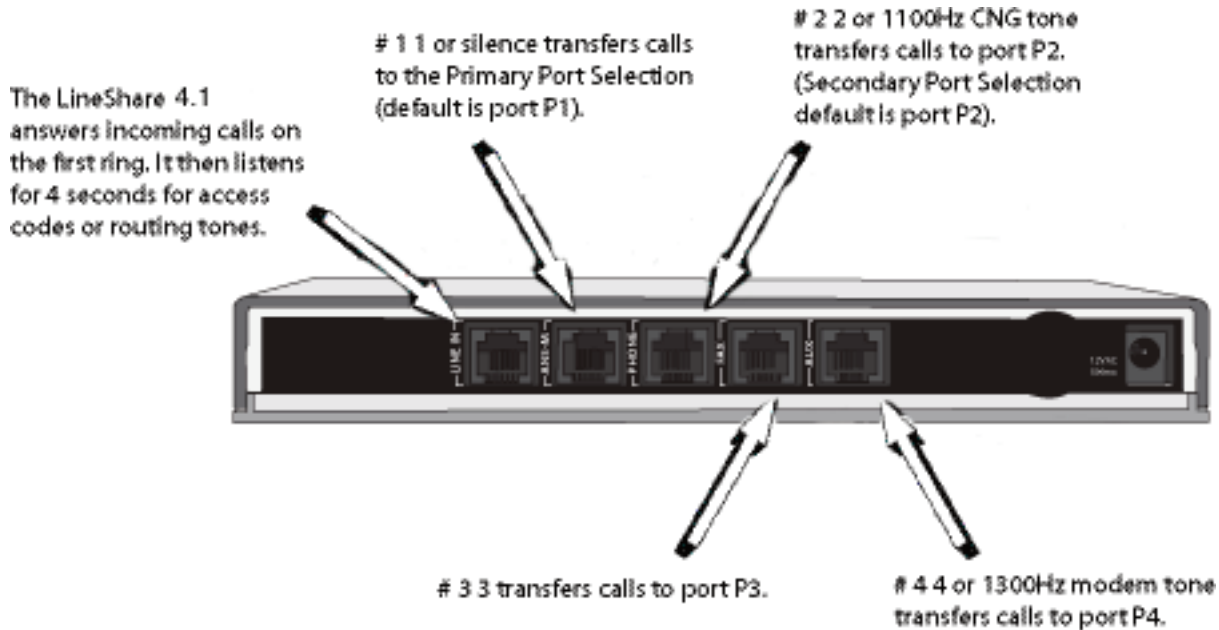
NOTE: If a ring burst is not assigned to a port, the LineShare Pro 104 will not answer a call ringing with that specific cadence. (These settings are the default settings for transferring calls and can be changed to meet end-user needs.)

When Distinctive Ring Detection is turned ON, the following features are automatically deactivated:

Automatic Primary Port Transfer Automatic No Answer Transfer Automatic Ring Reduction

When Distinctive Ring is turned ON, the LineShare Pro 104 will process calls in the current operating mode. Calls will be processed differently in the Automatic mode and Semi-Automatic mode as described below.

Distinctive Ring – Automatic Mode



NOTE: The distinctive ring pattern, routing tones and access codes can be changed through programming.

If the LineShare Pro 104 detects any of these signals, it transfers the call to the appropriate port. If the LineShare Pro 104 does not detect any of these signals, it will transfer the call to the port designated in the DRS Assignment.

The LineShare Pro 104 answers the call on the first ring (Rings to Answer Call) unless the DRS Assignment is not set for that line. (This means the LineShare Pro 104 will only process distinctive rings that have been programmed and ignore all other ring styles.)

If a device connected to another port on the LineShare Pro 104 answers a call, the LineShare Pro 104 will disable the Single Tone Detection feature (if the associated timer has not expired). Then only tone transfers are allowed as follows.

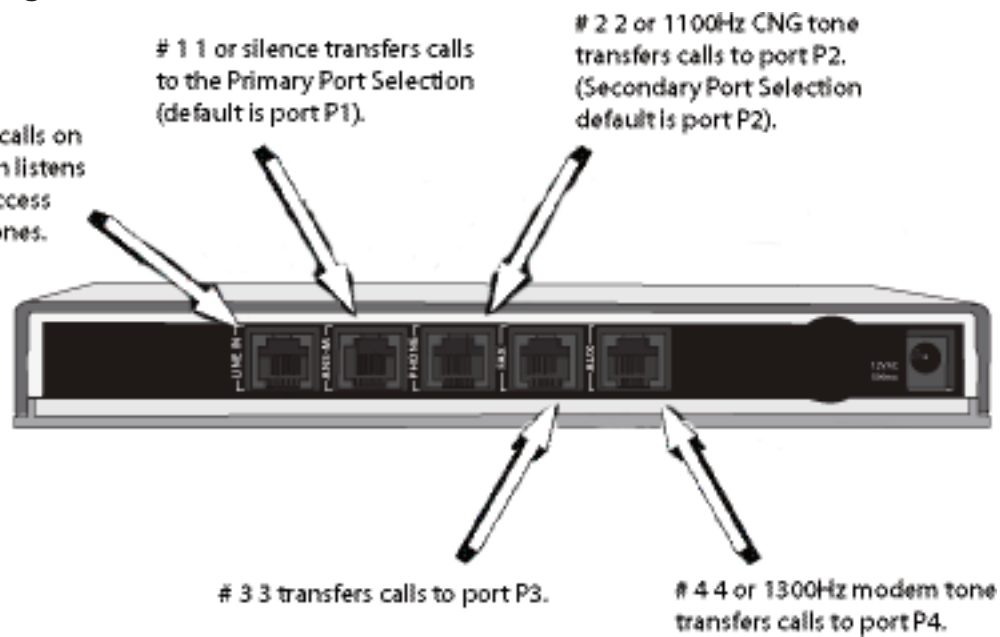
- port P1 # 1 1 tone
- port P2 # 2 2 tone
- port P3 # 3 3 tone
- port P4 # 4 4 tone

Any time a call is transferred to another port, the port that is off-hook with the call is the only port that will be allowed to transfer the call. The originating port will receive a busy tone once the transfer occurs.

NOTE: Extension phones not connected to the LineShare Pro 104 will only ring one time (Rings to Answer Call) on inbound calls and cannot answer calls unless Extension Detection is turned ON.

Distinctive Ring – Semi-Automatic Mode

The LineShare 4.1 answers incoming calls on the first ring. It then listens for 4 seconds for access codes or routing tones.



NOTE: The distinctive ring assignments, routing tones and access codes can be changed through programming.

If a device connected to any port answers a call, the LineShare Pro 104 listens for the following signals:

- port P1 # 1 1 tone
- port P2 # 2 2 tone 1100Hz CNG tone
- port P3 # 3 3 tone
- port P4 # 4 4 tone 1300Hz modem tone

If a device connected to any port answers a call, the Single Tone Detection is active for the duration of the Single Tone Transfer Timer (factory setting is 10 seconds). After the timer expires only tone transfers are allowed.

If the LineShare Pro 104 detects any of the above signals, it transfers the call to the appropriate port. Otherwise, it remains on line until it receives transfer codes, or the call disconnects.

Anytime a call is transferred to another port, the port that is off-hook with the call is the only port of the LineShare Pro 104 that will be allowed to transfer the call. The originating port will receive a busy tone once the transfer occurs.

Special Operating Note

Before operating the LineShare Pro 104, be sure you understand the following information concerning the telephone equipment that is used with the LineShare Pro 104. Fax CNG tones: Most faxes send audible beep tones called CNG (CalliNG) tones. This tone is a distinct beep that repeats every three (3) seconds. Once a fax has dialed the destination fax number, it generates this tone while waiting for the receiving fax to answer. Most, but not all faxes produce this through their auto-dial feature, speed-dial memory position, or by the operator pressing the start button on the fax machine after the number is dialed. For best results, callers should have your number programmed into their fax machine "speed-dial" memory.



Receiving a Computer Call

To have the calling modem automatically "over dial" an access code for a port of the LineShare Pro 104, the caller should take into consideration whether the call is local or long distance. For remote access to port P3 on the LineShare Pro 104, instruct the caller to use the following dialing string in the modem's software:

ATDT (phone number),#33,#33,#33,#33 (for Automatic mode)

ATDT (phone number),,,#33,#33,#33,#33 (for Semi-Automatic mode)

The calling modem picks up its phone line and dials the phone number. The comma (,) tells the modem to wait about two (2) seconds and then repeatedly "over dial" the access code.

NOTE: Not all modem comma (,) commands delay dialing for a 2 second interval. Consult your modem Operator's Guide and adjust the number of commas you use accordingly. In the Automatic mode, the LineShare Pro 104 will answer a call, detect the tones and transfer the call to port P3.

In the Semi-Automatic mode, you or your answering machine will answer the call, and then the LineShare Pro 104 will detect the tones and transfer the call to port P3. For long distance remote access to port P3, instruct the caller to use the following dialing string in the modem's software:

ATDT 1 (phone number),,,#33,#33,#33,#33 (for automatic mode)

ATDT 1 (phone number),,,,,#33,#33,#33,#33 (for Semi-Automatic mode)

NOTE: In the Semi-Automatic mode, the commas entered before the #33 are used to allow for the answering machine's 2-ring answer. Use 3 additional commas for each ring that your answering machine is set to answer above 2 rings.

For calls requiring access to other ports, substitute the appropriate access codes:

port P1 # 1 1

port P2 # 2 2

port P4 # 4 4

Computer Calls Using Distinctive Ring Service from the Telephone Company

As previously described, the LineShare Pro 104 is capable of routing calls based upon the phone company's Distinctive Ring service. Each telephone device is designated to a specific port and ring signal on the LineShare Pro 104. Callers simply dial the specific phone numbers assigned to the desired device and the LineShare Pro 104 transfers the call as described in the section Distinctive Ring service.

Intercom

If the LineShare Pro 104 is installed with phones connected to all ports, this feature also allows an intercom path between ports. To make an internal call to another port, perform the following procedures:

1. Take a phone connected to the LineShare Pro 104 off-hook.
2. Press one of the following transfer codes from a tone phone:

* * 1 1 for port P1
* * 2 2 for port P2
* * 3 3 for port P3
* * 4 4 for port P4

3. Place the phone receiver on-hook when finished.

Using Telephones with the LineShare Pro 104

Answering Incoming Calls



Incoming calls can be answered from an extension phone (if Extension Detection is turned ON) or from a phone device connected to the Primary port. After the call is answered, conduct the call normally, for as long as desired.

1. If, after answering a call, you hear silence on the line, the call could be coming from a fax that does not produce a CNG tone. Simply transfer the call to the port that the fax is connected to by pressing one of the following:
port P1 # 1 1
port P2 # 2 2
port P3 # 3 3
port P4 # 4 4
2. In the Semi-Automatic mode, if you hear a single frequency tone or an access code for another port after answering a call, hang up the phone. The call will be transferred automatically.

Answering Incoming Calls with an Answering Machine

If an answering machine answers a call from the Primary port, the caller can perform the following:

- Record a voice message on the answering machine and/or
- Transfer their call to another port



Following is a sample announcement that you may wish to use:

" * Hello, this is _____. If you wish to send a fax, press # 2 2 or leave a message after the tone."

NOTE: Use the appropriate access code if the fax is not connected to port P2.

If the LineShare Pro 104 is in the Semi-Automatic mode, you should record 4 seconds of silence before recording your outgoing message to allow time for detection of the CNG tone.

NOTE: Fax calls that do not produce a CNG tone will transfer to the answering machine. To allow the LineShare Pro 104 to transfer these calls to the Secondary port, see "Programmable features of the LineShare Pro 104" to turn on the Automatic Primary Port Transfer feature ON.

With the Automatic Primary Port Transfer turned ON, the LineShare Pro 104 will monitor the line for 30 seconds after the answering machine answers a call. If the answering machine (or telephone) disconnects from the call during this time, the LineShare Pro 104 automatically transfers the call to the Secondary port. To accommodate these timing parameters, the outgoing message should be between 15 and 20 seconds in length. (Single cassette style answering machines are not recommended for use with this feature due to timing limitations of these types of machines.)

Retrieving Answering Machine Messages from a Remote Location

To retrieve answering machine messages, follow these steps:

1. Dial your phone number and wait for the answering machine to answer the call.
2. After the answering machine answers the call, press * from a tone phone. (This disables the LineShare Pro 104 from inadvertently transferring a call.)
3. Follow the remote retrieval procedures for your answering machine.
4. After retrieving your messages, hang up. The LineShare Pro 104 resets for the next call.

Placing an Outbound Call

Outbound calls can be placed from any port. If another port is in use, the LineShare Pro 104 will produce a busy signal when attempting to place a call from a different port. During an outbound call, you can also receive a fax transmission from someone that is ready to transmit. To transfer this call to a port any time during a conversation, press the following from a tone phone:

port P1 # 1 1

port P2 # 2 2

port P3 # 3 3

port P4 # 4 4

(Picking up an extension phone not connected to a port during a data or fax transmission may interrupt the

call.) Once the call is transferred, the phone originating the transfer receives a busy signal. Simply hang up the phone until the transmission completes.

Emergency Call Override

This feature allows the Primary port to interrupt a call that is in process on another port. Emergency Call Override operates in conjunction with 3-way calling service from the phone company. Operation of this feature is provided through the Primary port and can be set up for Automatic or Manual operation as explained below:

Automatic Operation (with 3-way calling)



When a call is in process on a port and a telephone connected to the Primary port goes off-hook, the LineShare Pro 104 will disconnect the active port from the phone line, transmit a tone for 3 seconds, and then hook-flash to obtain dial tone from the phone company.

Manual Operation (with 3-way calling)

When a call is in process on a port and a telephone connected to the Primary port goes off-hook, the # key must be pressed and released to activate the Emergency Call Override. Upon detection of the # key, the LineShare Pro 104 will disconnect the active port from the phone line, transmit a tone for 3 seconds, and then hook-flash to obtain dial tone from the phone company.

Programming the LineShare Pro 104

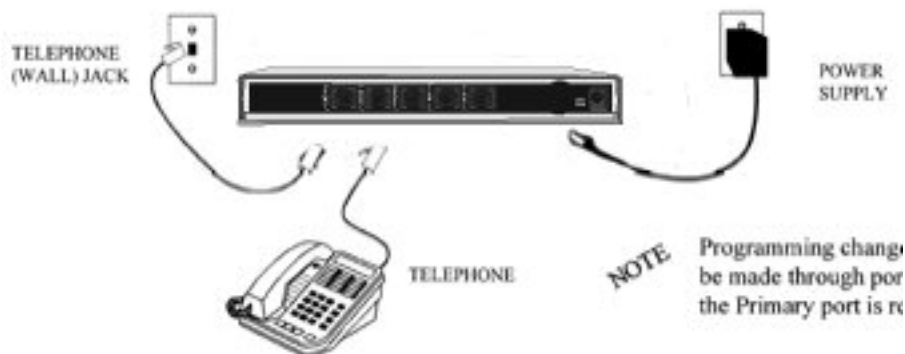
Introduction

The LineShare Pro 104 has many programmable features and settings that can be used to customize its operation for your specific application.

Many of these features have either feature settings and/or timing parameters associated directly with their operation. Therefore, please read the following sections carefully to obtain the best results when programming the LineShare Pro 104.

Programming Locally

Connect the LineShare Pro 104 as shown, using a tone phone connected to P2.



NOTE: Programming changes can only be made through port P2.

Programming changes can only be performed from a tone phone connected to port P2 of an operational unit. The LineShare Pro 104 will not process calls during programming sessions.

Entering the Programming Mode

Method 1 – DTMF Dialing

To enter the programming mode, take the phone off-hook, press # * . You will hear three beeps indicating the unit is in the programming mode.

Once in programming, the LineShare Pro 104 allows 8 seconds between tone commands before exiting the programming mode without saving the changes. Therefore, it would be beneficial to write down all programming changes before entering the programming mode.

Once a complete programming command is entered, it must be followed by the * key, which stores it into memory. After you enter the * key, you can set as many additional features or feature settings as needed for your application. When all programming changes are completed, press * * to save the changes in non-volatile memory and exit the programming mode. There is one final beep when exiting programming mode before returning to a dial tone.

Method 2 - Power-up Programming Mode

If during a programming session using method 1 above, you receive a dial tone, the intercept operator message, or if programming was not successful, the LineShare Pro 104 incorporates another method to enter the programming mode. This method is available anytime the LineShare Pro is powered ON. To use this method

perform the following steps:

1. Disconnect the telephone line from the LINE IN port.
2. Take the phone connected to port P2 off-hook.
3. Disconnect power from the LineShare Pro 104.
4. Reconnect power to the LineShare Pro 104.
5. The LineShare Pro 104 will produce three beeps indicating entry into the programming mode.
6. Continue with programming changes as described below:

Once in programming, the LineShare Pro 104 allows 8 seconds between tone commands before exiting the programming mode without saving the changes. Therefore, it would be beneficial to write down all programming changes before entering the programming mode.

Once a complete programming command is entered, it must be followed by the * key, which stores the setting in memory. After you enter the * key, you can set as many additional features or feature settings as needed for your application. When all programming changes are completed, press * * to save the changes in non-volatile memory and exit the programming mode. There is one final beep when exiting programming mode.

7. When programming changes are complete, hang up the phone.
8. Reconnect the telephone line.

Entering the Programming Mode Remotely

To program the LineShare Pro 104 remotely, the Security Access Code must be previously stored into memory.

From the remote location, dial the phone number of the line connected to the LineShare Pro 104. The call must be placed from a tone phone that has the # and * keys. When the LineShare Pro 104 answers the call, and between the ring signals, press the # key, followed by the Security Access Code. The LineShare Pro 104 will beep 3 times indicating successful entry into the programming mode.

Continue with programming changes as previously described.

Customer Service Programming

The LineShare Pro 104 can also be programmed by calling our Technical Service Team (toll free) at: 800.437.4996

Programmable Features

The LineShare Pro 104 offers the user the option of changing its settings for customized operation. For example, the number of rings before answering may be changed and the transfer code for each port can be changed. The tables below summarize the features that are user programmable. Following the tables, each entry is described in more detail along with programming examples. . In the examples, the programming mode is entered using Method 1. Method 2 or Remote Programming may also be used to enter the programming mode. The factory settings are the suggested values used in a typical installation.

The descriptions refer to a Primary Port and a Secondary Port. The factory setting for the Primary Port is P1. The factory setting for the Secondary Port is P2. Please be aware that any of the ports (P1-P4) on the LineShare Pro 104 can be programmed to be the Primary Port and one of the remaining ports can be programmed to be the Secondary Port. The Primary and Secondary port can not be the same.

Programmable Features of the LineShare Pro 104

Feature Number	FEATURE	FACTORY SETTING	Programming Digits	
			OFF	ON
0	Automatic No Answer Transfer	ON	00	10
1	Automatic Primary Port Transfer	OFF	01	11
2	Automatic Ring Reduction	OFF	02	12
3	Automatic Ring Reduction Reset	ON	03	13
4	Extension Detection	ON	04	14
5	On-Line Extension Protection	ON	05	15
6	Answer Any Port	OFF	06	16
7	Not Used			
8	Pound Key Required	ON	08	18
9	Single Tone Detection	ON	09	19
10	Fax CNG (Calling) Tone Detection	ON	010	110
11	Modem (Calling) Tone Detection	OFF	011	111
12	Reserved			
13	Distinctive Ring Service Detection	OFF	013	113
14	Caller ID Pass Thru	OFF	014	114
15	Emergency Call Override Action	OFF	015	115 2.2 sec Flash on-hook
16	Not Used			
17	Not Used			
18	Caller ID Store and Forward	ON	018	118

Feature Number	FEATURE	FACTORY SETTING	OPTIONS
20 and 21	Operating Mode	20	20 Automatic
21	Semi-Automatic		
30	Port Tone Assignment	0120	0-3 for each port
40	Rings to Answer Call	1	1 to 99
41	Rings to Port P1	6	1 to 99
42	Rings to Port P2	6	1 to 99
43	Rings to Port P3	6	1 to 99
44	Rings to Port P4	6	1 to 99
50	Primary Port Transfer Timer	30	0 to 99 seconds
51	Ring Reduction Reset Timer	10	1 to 60 minutes
52	Single Tone Detection Timer	10	4 to 30 seconds
60	Remote Security Access Code	None	0 to 9999

61	Port P1 Transfer Code	11	0 to 9999
62	Port P2 Transfer Code	22	0 to 9999
63	Port P3 Transfer Code	33	0 to 9999
64	Port P4 Transfer Code	44	0 to 9999
71	Primary Port Selection	711	711 = P1 712 = P2 713 = P3 714 = P4
72	Secondary Port Selection	722	721= P1 722= P2 723= P3 724= P4
80	DRS Assignment	1234	0 to 4 (each port)
999	Reset to Factory Settings	999	999

Automatic No Answer Transfer

This feature is designed to transfer calls that do not produce identifying tones to the appropriate port and operates in either the Automatic or Semi-Automatic mode

The LineShare Pro 104 rings the Primary port 6 times (Rings to Ports P__). If the call remains unanswered after 6 rings, the LineShare Pro 104 transfers the call to the Secondary port.

The factory setting for Automatic No Answer Transfer feature is ON.

If the Automatic No Answer Transfer feature is turned OFF, the LineShare Pro 104 will operate as follows:

Semi-Automatic mode

The call will continue to ring as long as the caller stays on line without transferring.

To turn this feature OFF:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 0 0 * (three beeps) * (one beep)
3. Hang up the phone

Automatic mode

The call will ring 6 times to the Primary port without transferring, then reset for the next call. The next incoming call will be processed with Ring Reduction activated as well as associated features and feature settings.

To turn this feature ON:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 1 0 * (three beeps) * (one beep)
3. Hang up the phone

Automatic Primary Port Transfer

This feature is designed to work in conjunction with an answering machine to transfer calls that do not produce identifying tones to the appropriate port. It operates in both the Automatic mode and Semi-Automatic mode.

If the device connected to the Primary Port (P1 is the factory setting) answers a call and is on line for less than 30 seconds (Primary Port Transfer Timer) the LineShare Pro 104 will transfer the call to the Secondary port (P2 is the factory setting). If the call is on line for more than 30 seconds, the LineShare Pro 104 will simply reset for the next call when the answering machine disconnects.

If the Automatic Primary Port Transfer feature is turned OFF, the LineShare Pro 104 will reset each time the device connected to P1 disconnects from a call. No transfer to the Secondary port will occur when the answering machine disconnects from a call.

The factory setting for Automatic Primary Port Transfer feature is OFF.

To turn this feature ON:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 1 1 * (three beeps) * (one beep)
3. Hang up the phone

To turn this feature OFF:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 0 1 * (three beeps) * (one beep)
3. Hang up the phone

Automatic Ring Reduction

This feature is designed to activate when Automatic No Answer Transfer routes an unanswered call to the Secondary port. After this transfer occurs, the Automatic Ring Reduction feature is activated. Future incoming calls will ring the Primary Port only 2 times. The LineShare Pro 104 resets the ring count to programmed number of rings (6 is the factory setting) after 10 minutes (Ring Reduction Reset Timer) of inactivity on other ports if the Automatic Ring Reduction Reset is ON. Otherwise, it can be reset manually from any port by making a call.

If Automatic Ring Reduction is turned OFF, the LineShare Pro 104 will continue to allow 6 rings (Rings Available to Port P__) to the Primary port on every call. (Turning this feature OFF may limit some fax machine's ability to connect to your fax machine due to timing parameters.)

The factory setting for Automatic Ring Reduction is OFF.

To turn this feature ON:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 1 2 * (three beeps) * (one beep)
3. Hang up the phone

To turn this feature OFF:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 0 2 * (three beeps) * (one beep)
3. Hang up the phone

Automatic Ring Reduction Reset

This feature is designed to reset the LineShare Pro 104 to allow 6 rings (Rings to Ports P__) to the Primary port after the Automatic Ring Reduction reduced the ring count to 2 rings.

The Automatic Ring Reduction Reset will reset the ring count to the number of rings specified for the designated Primary port after 10 minutes (setting of Ring Reduction Reset Timer) of inactivity. The factory setting is 6 rings but it is user programmable. Ring reduction is also reset by placing a call from any port.

If Automatic Ring Reduction Reset is turned OFF, the LineShare Pro 104 will continue to allow 2 rings to the Primary port on every call until it is manually reset.

The factory setting for Automatic Ring Reduction Reset is ON, but this feature will not operate until Automatic Ring Reduction is turned ON.

To turn this feature OFF:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 0 3 * (three beeps) * (one beep)
3. Hang up the phone

To turn this feature ON:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 1 3 * (three beeps) * (one beep)
3. Hang up the phone

Extension Detection

Extension Detection provides a method to interrupt call processing from an extension phone and operates only in the Automatic mode.

With Extension Detection turned OFF, the LineShare Pro 104 does not detect extension phones (phones not connected to the LineShare Pro 104) going off-hook during a call. When answering a call from an extension phone, you will hear the LineShare Pro 104 ringing the selected port. Pressing the * key on an extension phone stops the LineShare Pro 104 from ringing the port and gives control of the call to the extension phone.

If Extension Detection is turned ON, the LineShare Pro 104 will detect an extension phone going off-hook and stop ringing the port. The extension phone now has control of the call.

The factory setting for Extension Detection is ON.

To turn this feature OFF:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 0 4 * (three beeps) * (one beep)
3. Hang up the phone

To turn this feature ON:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 1 4 * (three beeps) * (one beep)
3. Hang up the phone

On-Line Extension Interruption Protection

This feature allows the LineShare Pro 104 to detect when an extension phone (not connected to the LineShare Pro 104) is using the telephone line. Once the extension phone is on the line, any device connected to the LineShare Pro 104 cannot access the phone line. The device simply receives a busy signal until the extension phone has disconnected from the call.

NOTE: Phones or data devices connected directly to the LineShare Pro 104 do not require this feature as the LineShare Pro 104 always maintains exclusion between ports. This means only one device port of the LineShare Pro 104 may access the telephone at one time.

If On-Line Extension Protection is turned OFF, a device connected to another port of the LineShare Pro 104 will interrupt or barge-in on a call from any extension phone.

The factory setting for On-Line Extension Protection is ON.

To turn this feature OFF:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 0 5 * (three beeps) * (one beep)
3. Hang up the phone

To turn this feature ON:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 1 5 * (three beeps) * (one beep)
3. Hang up the phone

Answer Any Port

For an incoming call, the Answer Any Port feature permits any port that is not ringing to answer the call. Once the call is answered, the LineShare Pro 104 listens for tone access codes to transfer the call to another port. In the Automatic mode, if Extension Detection is set to be ON, this feature is automatically turned on.

Conditions that allow the Answer Any Port feature to operate:

1. Any time between ring signals to the Primary port
2. After a No Answer Transfer occurs
3. When Distinctive Ring Service Detection is activated

Conditions that restrict the Answer Any Port feature:

1. Automatic Primary Port Transfer
2. Single frequency tone transfer
3. Tone Access code transfer

In the Semi-Automatic mode, Single Tone Detection will be activated when a device answers a call.

The factory setting for the Answer Any Port feature is OFF.

To turn this feature ON:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 1 6 * (three beeps) * (one beep)

3. Hang up the phone

To turn this feature OFF:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 0 6 * (three beeps) * (one beep)
3. Hang up the phone

Pound Key Transfer Required

This feature allows the LineShare Pro 104 to require the # key be entered before the transfer code for a port or for entering the remote programming mode using the Security Access Code.

With this feature turned ON, the # is required to be entered before the transfer code to initiate the transfer. (For example # 3 3). If an incorrect access code is entered press # and re-enter the transfer code to complete a transfer.

If this feature is turned OFF, only the transfer code for the port is required to initiate the transfer. (For example 3 3). If an incorrect access code is entered, the caller can wait 5 seconds or press # and re-enter the transfer code to complete a transfer.

The factory setting for the Pound Key Transfer Required feature is ON.

To turn this feature OFF:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 0 8 * (three beeps) * (one beep)
3. Hang up the phone

To turn this feature ON:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 1 8 * (three beeps) * (one beep)
3. Hang up the phone

Single Tone Detection

This feature allows the LineShare Pro 104 to detect single frequency tones (for the duration of the Single Tone Detection Timer) from various data devices. It recognizes the following tones:

- 1100Hz Fax CNG tone (if turned ON)
- 1300Hz modem calling tone (if turned ON)

Operation in the Automatic mode and Semi-Automatic mode vary as follows:

Automatic Mode

After the LineShare Pro 104 answers a call, it will monitor the telephone line and transfer calls to the designated port (set using the Port Tone Assignment parameter) when a single frequency tone is detected. The Single Tone Detection Timer begins when the LineShare Pro 104 answers the call. After the timer expires, the LineShare Pro 104 will only transfer calls using the access codes.

Semi-Automatic Mode

The Single Tone Detection Timer begins when the call is answered. Once the call is answered, the LineShare Pro 104 will monitor the telephone line and transfer calls when a single frequency tone is detected. After the timer expires, transfers will require tone access codes.

The factory setting for Single Tone Detection is ON.

To turn this feature OFF:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 0 9 * (three beeps) * (one beep)
3. Hang up the phone

To turn this feature ON:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 1 9 * (three beeps) * (one beep)
3. Hang up the phone

NOTE: This feature supersedes the following features: Fax CNG Detection, Modem Calling Tone Detection. If Single Tone Detection is turned OFF, these features will not operate even if they are programmed ON.

Fax CNG (Calling) Tone Detection

This feature allows the LineShare Pro 104 to detect the 1100 Hz CNG tone typically from a FAX machine. When set to ON, 1100 Hz tones are detected. When set to OFF, 1100 Hz tones are ignored.

Operation in the Automatic mode and Semi-Automatic mode varies as follows:

Automatic Mode

After the LineShare Pro 104 answers a call, the telephone line is monitored for the CNG tone and the call is transferred to the designated port if detected. The port is determined by the Port Tone Assignment parameter.

Semi-Automatic Mode

After a call is answered, the LineShare Pro 104 monitors the telephone line for the CNG tone and the call is transferred to the designated port if detected. The port is determined by the Port Tone Assignment parameter.

In both the Automatic and Semi-Automatic modes, the LineShare Pro 104 only monitors the line for tones for the time specified by the Single Tone Detection Timer. This timer has a factory setting of 10 seconds.

The factory setting for Fax CNG Tone Detection is ON.

To turn this feature OFF:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 0 1 0 * (three beeps) * (one beep)
3. Hang up the phone

To turn this feature ON:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 1 1 0 * (three beeps) * (one beep)
3. Hang up the phone

Modem Tone Detection – 1300 Hz

This feature allows the LineShare Pro 104 to detect a 1300Hz tone typically from a modem. When set to ON, 1300 Hz tones are detected. When set to OFF, 1300 Hz tones are ignored.

Operation in the Automatic mode and Semi-Automatic mode varies as follows:

Automatic Mode

After the LineShare Pro 104 answers a call, the telephone line is monitored for a 1300 Hz tone and the call is transferred to the designated port if detected. The port is determined by the Port Tone Assignment parameter.

Semi-Automatic Mode

After a call is answered, the LineShare Pro 104 monitors the telephone line for a 1300 Hz tone and the call is transferred to the designated port if detected. The port is determined by the Port Tone Assignment parameter.

In both the Automatic and Semi-Automatic modes, the LineShare Pro 104 only monitors the line for tones for the time specified by the Single Tone Detection Timer. This timer has a factory setting of 10 seconds.

The factory setting for Modem Calling Tone Detection is ON.

To turn this feature OFF:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 0 1 1 * (three beeps) * (one beep)
3. Hang up the phone

To turn this feature ON:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 1 1 1 * (three beeps) * (one beep)
3. Hang up the phone

Distinctive Ring Service (DRS) Detection

This feature allows the LineShare Pro 104 to detect the various ring signal patterns from the phone company that are associated with DRS. It works with DRS Assignment to automatically transfer calls to any port on the LineShare Pro 104 without requiring single frequency tones or transfer codes.

The factory setting for Distinctive Ring Service Detection is OFF.

To turn this feature ON:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 1 1 3 * (three beeps) * (one beep)

3. Hang up the phone

To turn this feature OFF:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 0 1 3 * (three beeps) * (one beep)
3. Hang up the phone.

Caller ID Pass Thru

NOTE: This feature has been superseded by the Caller ID Retransmission (Store and Forward) feature that has better functionality. This feature has been included for compatibility purposes with older installations.

This feature allows Caller ID devices to be connected directly to the Primary port of the LineShare Pro 104. This feature requires Caller ID service activation from the phone company. Also see the Caller ID Retransmission section.

Operation in the Automatic mode and Semi-Automatic mode vary as follows:

Automatic Mode

When the LineShare Pro 104 is in the Automatic mode, the first ring of a call passes directly to the Primary port. Between the first and second rings, the Caller ID device will display its information. The LineShare Pro 104 answers the call before the start of the second ring and processes the call normally. All extensions phones will ring. If Distinctive Ring Service Detection is turned ON, only the primary port will receive the Caller ID information even if the primary port is not the designated port for the distinctive ring pattern. The second incoming ring will be processed as described in "Distinctive Ring Service."

Semi-Automatic Mode

In this mode, Caller ID is always ON. When a call comes in, the first ring of a call passes directly to the Primary port. Between the first and second rings, the Caller ID will display its information, and the call is then processed normally. NOTE: If Distinctive Ring Service Detection is turned ON, the second ring will be processed as described in "Distinctive Ring Service."

The factory setting for Caller ID Pass Thru is OFF. Caller ID Retransmission must be OFF before this feature is turned ON.

To turn this feature ON:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 1 1 4 * (three beeps) * (one beep)
3. Hang up the phone

To turn this feature OFF:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 0 1 4 * (three beeps) * (one beep)
3. Hang up the phone

Emergency Call Override Action – Priority Outbound Call

This feature permits the Emergency Call Override feature to operate the phone company's 3-way calling service.

Please refer to the Emergency Call Override section for operating procedures with the LineShare Pro 104.

The factory setting for Emergency Call Override is set to go on-hook for 2.2 seconds [# * (three beeps) 0 1 5 * (three beeps) * (one beep)]

To set the LineShare Pro 104 for operation with the 3-way calling feature (LineShare Pro 104 performs a flash), use the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 1 1 5 * (three beeps) * (one beep)
3. Hang up the phone

To set the LineShare Pro 104 to go on-hook for 2.2 seconds, use the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 0 1 5 * (three beeps) * (one beep)
3. Hang up the phone

Caller ID Retransmission

This feature allows Caller ID devices to be connected to any port of the LineShare Pro 104 and requires Caller ID service activation from the phone company.

Operation in the Automatic mode and Semi-Automatic mode vary as follows:

Automatic Mode

When the LineShare Pro 104 is in the Automatic mode, the unit detects the incoming ring signal and receives the caller ID information between the first and second rings. Before the second ring, the LineShare Pro 104 answers and processes the call normally. The determined port is rung and the Caller ID information is retransmitted to the port after the first ring to the port. The Caller ID information is only retransmitted only time. It is not retransmitted if the call is transferred from one port to another. If Distinctive Ring Service Detection is turned ON, only the port designated by the DRS Assignment will receive the Caller ID information.

Semi-Automatic Mode

When a call comes in, the first ring of a call passes directly to the Primary port. Between the first and second rings, the Caller ID will display its information, and the call is then processed normally. NOTE: If Distinctive Ring Service Detection is turned ON, the second ring will be processed as described in "Distinctive Ring Service." Only the port designated by the DRS Assignment will receive the Caller ID information.

The factory setting for Caller ID Retransmission is ON. Caller ID Pass Thru must be OFF before this feature is turned ON.

To turn this feature ON:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 1 1 8 * (three beeps) * (one beep)
3. Hang up the phone

To turn this feature OFF:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 0 1 8 * (three beeps) * (one beep)
3. Hang up the phone

Also see the Caller ID Pass Thru section.

Operating Mode

The Operating mode can be set in either the Automatic mode or the Semi-Automatic mode as previously described.

The factory setting is for operation in the Automatic mode

To set the LineShare Pro 104 for Semi-Automatic mode, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 2 1 * (three beeps) * (one beep)
3. Hang up the phone

To set the LineShare Pro 104 for Automatic mode, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 2 0 * (three beeps) * (one beep)
3. Hang up the phone

Port Tone Assignment

This feature designates where the LineShare Pro 104 will transfer a call that produces the following identifying tones:

- 1100Hz Fax CNG tone (if turned ON)
- 1300Hz modem calling tone (if turned ON)

The tones can be set to transfer automatically (depending on operating mode) to any port on the LineShare Pro 104.

The LineShare Pro 104 looks for a 4-digit code to set the port designations for receiving tone transfers. The first digit represents port P1, the second digit represents port P2, the third digit represents port P3, the fourth digit represents port P4. The LineShare Pro 104 cannot be set to transfer any tone to more than one port.

Following are the digits that represent the tones for setting port designations:

- 0 No tone assigned
- 1 1100Hz CNG
- 2 1300Hz modem calling tone
- 3 1100Hz & CNG 1300Hz modem calling tone

The factory setting for Port Tone Assignment is 0 1 2 0. (P1 = not assigned, P2 = 1100Hz, P3 = 1300Hz, P4 = not assigned)

To change this feature, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 3 0 _ _ _ _ * (three beeps) * (one beep) (blank spaces represent selection of tones)
3. Hang up the phone

Emergency Call Override

This feature allows the Primary port to interrupt a call in process on another port and operates in either the Automatic mode or the Semi-Automatic mode.

Emergency Call Override is capable of operating with the phone company's three-way calling service (Emergency Call Override Selection).

Operation of this feature is provided through the Primary port, and can be set for automatic or manual operation.

Automatic Operation

When a call is in process on a port and a phone connected to the Primary port goes off-hook, the LineShare Pro 104 will automatically release the line as described in "Using the LineShare Pro 104."

Manual Operation

When a call is in process on a port while a phone connected to the Primary port goes off-hook and the # key is pressed and released, the LineShare Pro 104 will automatically release the line as described in "Using the LineShare Pro 104."

The factory setting for Emergency Call Override is OFF [# * (three beeps) 3 1 0 * (three beeps) * (one beep)].

To set the LineShare Pro 104 for Automatic Emergency Call Override, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 3 1 2 * (three beeps) * (one beep)
3. Hang up the phone

To set the LineShare Pro 104 for Manual Emergency Call Override, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 3 1 1 * (three beeps) * (one beep)
3. Hang up the phone

Rings to Answer Call

This feature only applies to the Automatic mode.

This feature determines how many times an incoming call rings before it is answered by the LineShare Pro 104. To configure the LineShare Pro 104 to answer and transfer calls as quickly as possible, the factory setting is 1 ring, Under normal circumstances, it is not necessary to change this setting. The range of this setting is 1 to 30 rings.

This feature has a range of 1 to 30 rings to answer a call. If this ring count is set higher than 1 ring and a call is answered from an extension phone before the LineShare Pro 104 answers, the single tone transfer is deactivated. The tone transfer access codes still function.

The factory setting for the Rings to Answer Call is 1 ring. To change this feature, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 4 0 __ * (three beeps) * (one beep) (blank spaces represent the new Rings to Answer Call)
3. Hang up the phone

Rings to Port P1

This feature determines the number of rings that the LineShare Pro 104 provides to port P1 with a range of 0-30 rings and operates in either the Automatic mode or the Semi-Automatic mode.

The factory setting for the Rings to Port P1 is 6 rings.

To change this feature, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 4 1 __ * (three beeps) * (one beep) (blank spaces represent the new Rings to Port P1)
3. Hang up the phone

Rings to Port P2

This feature determines the number of rings that the LineShare Pro 104 provides to port P2 with a range of 0-30 rings and operates in either the Automatic mode or the Semi-Automatic mode.

The factory setting for the Rings to Port P2 is 6 rings.

To change this feature, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 4 2 __ * (three beeps) * (one beep) (blank spaces represent the new Rings to Port P2)
3. Hang up the phone

Rings to Port P3

This feature determines the number of rings that the LineShare Pro 104 provides to port P3 with a range of 0-30 rings and operates in either the Automatic mode or the Semi-Automatic mode.

The factory setting for the Rings to Port P3 is 6 rings.

To change this feature, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 4 3 __ * (three beeps) * (one beep) (blank spaces represent the new Rings to Port P3)
3. Hang up the phone

Rings to Port P4

This feature determines the number of rings that the LineShare Pro 104 provides to port P4 with a range of 0-30 rings and operates in either the Automatic mode or the Semi-Automatic mode.

The factory setting for the Rings to Port P4 is 6 rings.

To change this feature, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 4 4 _ _ * (three beeps) * (one beep) (blank spaces represent the new Rings to Port P4)
3. Hang up the phone

Primary Port Transfer Timer

This feature designates the timing parameters for operation of the Automatic Primary Port Transfer. It is designed to accommodate the timing parameters of fax machines that do not produce CNG tones.

When using the Automatic Primary Port Transfer feature, set this feature to 10 seconds longer than the outgoing announcement message. If the outgoing announcement message is 10 seconds, set this timer to 20 seconds. This will allow adequate time for non-CNG faxes to reach the fax machine, yet allow callers to leave messages on the answering machine without transferring to the Secondary port when the call is complete (if the message is longer than 10 seconds).

This feature has a range of 0-99 seconds. If 0 or 00 is entered, the Automatic Primary Port Transfer will always transfer calls to the Secondary port regardless of time on the line.

The factory setting for the Primary Port Transfer Timer is 30 seconds. To change this feature, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 50 _ _ * (three beeps) * (one beep) (Blank keys represent new Primary Port Transfer Timer setting)
3. Hang up the phone

Ring Reduction Reset Timer

This feature designates the timing parameters for operation of Automatic Ring Reduction and Automatic Ring Reduction Reset. It is activated when the Automatic No Answer Transfer transfers a call to the Secondary Port Selection, and the Automatic Ring Reduction reduces the Rings Available to Port P1 (Primary port) to 2 rings.

When this feature is activated, the LineShare Pro 104 monitors all ports for activity. If there is no activity for 10 minutes, the Automatic Ring Reduction Reset will restore the previous number of rings to the Primary port.

This feature has a range of 1-60 minutes. The Rings to Port P1 (Primary port) can be reset manually as previously described.

The factory setting for the Ring Reduction Reset Timer is 10 minutes. To change this feature, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 51 _ _ * (three beeps) * (one beep) (Blank spaces represent new Ring Reduction Reset Timer setting)
3. Hang up the phone

Single Tone Detection Timer

This feature designates the timing parameters for operation of the Single Tone Detection feature.

When Single Tone Detection is activated, but this timer expires on a call, the LineShare Pro 104 will not transfer calls producing identifying tones.

This feature has a range of 4-30 seconds.

The factory setting for the Single Tone Detection Timer is 10 seconds. To change this feature, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 52 __ * (three beeps) * (one beep) (Blank spaces represent new Single Tone Detection Timer setting)
3. Hang up the phone

Remote Security Access Code – Remote Programming

Operates only in the Automatic mode.

This feature assigns the access code that is required to enter the programming mode of the LineShare Pro 104 from a remote location.

Once entered, the LineShare Pro 104 stores it in non-volatile memory until removed through programming. It is not changed when factory settings are restore.

The Remote Security Access Code can be 1to 4 digits not including the # key. See Pound Key Transfer Required for use with the Remote Security Access Code. Do not use a transfer code for a port on the LineShare Pro 104, or 0 0 0 0 as it will disable remote programming.

The factory setting for the Remote Security Access Code is unprogrammed for your protection. It must be entered before you can access the remote programming mode.

To enter an access code, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 6 0 _ _ _ * (three beeps) * (one beep) (blank spaces represent the new Remote Security Access Code)
3. Hang up the phone

To disable remote programming, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 6 0 0 0 0 0 * (three beeps) * (one beep)
3. Hang up the phone

Port P1 Transfer Code

This feature assigns the access code to transfer a call to port P1.

The Port P1 Transfer Code can be 1 to 4 digits not including the # key. See Pound Key Transfer Required for use with the Port P1 Transfer Code. Do not use a code that is a transfer code for another port on the LineShare Pro 104.

The factory setting for the Port P1 Transfer Code is 1 1.

To enter a new access code, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 6 1 _ _ _ _ * (three beeps) * (one beep) (blank spaces represent the new Port P1 Transfer Code)
3. Hang up the phone

A code of 0 0 0 0 disables transfers to this port.

Port P2 Transfer Code

This feature assigns the access code to transfer a call to port P2.

The Port P2 Transfer Code can be any numeric 1-4 digits not including the # key. See Pound Key Transfer Required for use with the Port P2 Transfer Code. Do not use a code that is a transfer code for another port on the LineShare Pro 104.

The factory setting for the Port P2 Transfer Code is 2 2.

To enter a new access code, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 6 2 _ _ _ _ * (three beeps) * (one beep) (blank spaces represent the new Port P2 Transfer Code)
3. Hang up the phone

A code of 0 0 0 0 disables transfers to this port.

Port P3 Transfer Code

This feature assigns the access code to transfer a call to port P3.

The Port P3 Transfer Code can be any numeric 1-4 digits not including the # key. See Pound Key Transfer Required for use with the Port P2 Transfer Code. Do not use a code that is a transfer code for another port on the LineShare Pro 104.

The factory setting for the Port P3 Transfer Code is 3 3.

To enter a new access code, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 6 3 _ _ _ _ * (three beeps) * (one beep) (blank spaces represent the new Port P3 Transfer Code)
3. Hang up the phone

A code of 0 0 0 0 disables transfers to this port.

Port P4 Transfer Code

This feature assigns the access code to transfer a call to port P4.

The Port P4 Transfer Code can be any numeric 1-4 digits not including the # key. See Pound Key Transfer Required for use with the Port P4 Transfer Code. Do not use a code that is a transfer code for another port on the LineShare Pro 104.

The factory setting for the Port P4 Transfer Code is 4 4.

To enter a new access code, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 6 4 _ _ _ _ * (three beeps) * (one beep) (blank spaces represent the new Port P4 Transfer Code)
3. Hang up the phone

A code of 0 0 0 0 disables transfers to this port

Primary Port Selection

This feature designates where the call is routed when tone transfer codes are not detected in the Automatic mode, or any inbound call when the LineShare Pro 104 is in the Semi-Automatic Mode. Calls can be designated to any of the 4 ports other than the Secondary Primary Port Selection. Any of the 4 ports can be designated as the Primary Port. One port cannot be designated to be both the Primary Port and Secondary Port.

The factory setting for Primary Port Selection is port P1 [# * (three beeps) 7 1 1 * (three beeps) * (one beep)].

To select transfer to port P2:

1. Take the phone in port P2 off-hook * (three beeps) * (one beep)
2. Press # * (three beeps) 7 2 1 * (three beeps) * (one beep)
3. Hang up the phone

To select transfer to port P3, press # * (three beeps) 7 1 3 * (three beeps) * (one beep)

To select transfer to port P4, press # * (three beeps) 7 1 4 * (three beeps) * (one beep)

Secondary Port Selection

This feature designates where the call is routed when the Automatic No Answer Transfer feature or the Primary Port Transfer feature is activated.

The factory setting for Secondary Port Selection is port P2 [# * (three beeps) 7 2 2 * (three beeps) * (one beep)].

To select transfer to port P1:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 7 2 1 * (three beeps) * (one beep)
3. Hang up the phone

To select transfer to port P3, press # * (three beeps) 7 2 3 * (three beeps) * (one beep)

To select transfer to port P4, press # * (three beeps) 7 2 4 * (three beeps) * (one beep)

DRS Assignment

The DRS Assignment operates in either the Automatic mode or the Semi-Automatic mode.

This feature designates where the LineShare Pro 104 will transfer a call using the Distinctive Ring service. It has the ability to recognize four different ring signals:

- 0- - - no ring assigned
- 1- - - standard ring
- 2- - - two-burst ring

- 3- - - three-burst ring (short-short-long)
(Short short short)
(Long long long)
(Long short short)
(Short long long)

- 4- - - three-burst ring (short-long-short)
(Long short long)
(Long long short)

The LineShare Pro 104 looks for a 4-digit entry to set the port designations for the individual rings. The first digit represents port P1, the second digit represents port P2, the third digit represents port P3, and the fourth digit represents port P4. The LineShare Pro 104 cannot be set to transfer any ring signal to more than one port.

The factory setting is # * (three beeps) 8 0 1 2 3 4 * which transfers a standard ring to port P1, a two burst ring to port P2, a three burst ring (above) to port P3, and a three burst ring (above) to port P4.

To change this feature, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 8 0 _ _ _ _ * (three beeps) * (one beep) (blank spaces represent the new DRS Assignment)
3. Hang up the phone

NOTE: If a ring burst is not assigned, the LineShare Pro 104 will not respond to the incoming call designated to that phone number.

Each ring burst can be assigned to 1 port. If you attempt to assign a ring burst to more than 1 port, the LineShare Pro 104 will give an error tone.

Reset to Factory Settings

To reset all features and feature settings to their original factory settings, perform the following steps:

1. Take the phone in port P2 off-hook
2. Press # * (three beeps) 9 9 9 * (three beeps) * (one beep)
3. Hang up the phone

NOTE: This does not reset the Remote Security Access Code. Refer to the Remote Security Access Code section for more information.

REGULATORY COMPLIANCE INFORMATION

The LineShare Pro 104 complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the underside of this equipment is a label that contains, among other information, a product identifier in the format US:AAEQ##TXXXX. If requested, this number must be provided to the telephone company. USOC: When ordering service from the telephone company for the equipment the following information should be supplied: Universal Service Order Code (USOC): RJ11C or RC13C.

Plug and Jack: The plug and jack used to connect this equipment to premise wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by ACTA. A compliant telephone cord and modular plug is provided with this product. The telephone cord is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

Ringer Equivalency Number (REN): The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. The REN for the equipment is part of the ACTA/FCC number that has the format US:AAEQ##TXXXX. The digits represented by the ## are the REN without the decimal point (e.g., 01 is a

REN of 0.1) and are followed by the Ringer Class (A or B).

Harm to the Network: If this equipment causes harm to the telephone network, the telephone company will notify you in advance that the temporary discontinuance of service may be required. But if advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary. **Notification of Changes in Telephone Company Equipment:** The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

Repairs or Returns: If trouble is experienced with this equipment, for repairs or warranty information, contact Long Range Systems at 800-437-4996. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved. Only a qualified factory representative should make repairs.

Party Lines: This equipment must not be used on party lines.

Alarm Equipment: You should ensure that this equipment does not disable alarm equipment in installations where the alarm equipment utilizes the same telephone network connection as this equipment. If you have questions about what will disable the alarm equipment, consult your telephone company or a qualified installer.

Electrical Safety Advisory: Telephone companies report that electrical surges, typically lightening transients, are very destructive to customer terminal equipment connected to AC power sources. This has been identified as a major nationwide problem. A commercially available, power surge arrester is recommended for use with this equipment to minimize damage in the event of an electrical surge.

FCC Rules Part 15--Computing Devices Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct

the interference by one or more of the following measures :1- Reorient or relocate the receiving antenna. 2- Increase the separation between the equipment and receiver. 3- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV

technician for help.

CAUTION: *Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the LineShare Pro 104.*

Industry Canada Information - "Notice: The Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunication network protective, operation and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction. Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations. Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment. Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION: *Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate."*

International Return Policy

Long Range Systems, Inc. does not guarantee this product will be compatible with the telecommunications systems of all countries. Modifications may have been made to products in order to function in certain locations. Therefore, it is best to purchase our products in the country in which it will be used. If this product is purchased outside the U.S. from an authorized Long Range Systems' dealer, it should be returned for repair at the location where it was purchased, as provisions have been established to handle warranty repair outside the U.S. If you send the product directly to Long Range Systems for repair, you will be responsible to pay all freight, handling, and Custom charges (both ways).

WARRANTY

Long Range Systems, Inc. warrants this product against any defects that are due to faulty material or workmanship for a one-year period after the original date of consumer purchase. This warranty does not include damage to the product resulting from accident, misuse or improper electrical connection. If this product should become defective within the warranty period, we will repair or replace it with an equivalent product, free of charge. LRS will return your product via UPS ground shipping. All warranty claims must be initiated through our customer service department.

Customer Service: 800.437.4996
4550 Excel Parkway, Suite 200
Addison, TX 75001

This warranty gives you specific legal rights and you may also have rights that vary from state to state.

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