INDUSTRIAL DEFENDER®

# Teltone LSS

Line Sharing System


## highlights

- Rugged, “network quality” design
- Full remote programmability
- Emergency outbound dialing priority
- Access security for remote modems

## benefits

- Rugged design, “network quality” components plus Teltone’s telecommunications design expertise ensure system availability and reliability in industrial environments.
- By using the Polling Controller you get the absolute minimum connect time to remote modems and prevent inadvertent modem downshifts and lockups.
- Polling sessions are terminated properly by a programmable higher priority access for emergency outbound calls or access from other ports.
- Incoming fax calls are detected and automatically routed to a designated fax port.
- Remote modems are hidden from unauthorized access since uncoded calls are automatically routed to the telephone port.
- A single routing code can be programmed into the Polling Controller, eliminating the need to change the host dialing string.
- Non-volatile memory maintains all user-programmed functions and a watchdog timer protects system integrity.
- Normal telephone use is not impacted by power failure.

Teltone’s Line Sharing Switch and Polling Controller let you take advantage of the unused capacity of your phone lines by allowing up to four telecommunications devices (phone, modems, fax, etc.) to share a single line. In addition, multiple Line Sharing Switches can be easily cascaded or paralleled to allow more than four devices to share a single line. Your inbound or outbound data collection and other online transactions will take place as with dedicated lines, but without the extra line cost. Emergency override access to the phone line can be provided as needed for your application. The Line Sharing Switch operates alone or with the Polling Controller to give you a flexible, cost-effective way to collect data without affecting critical telephone service.

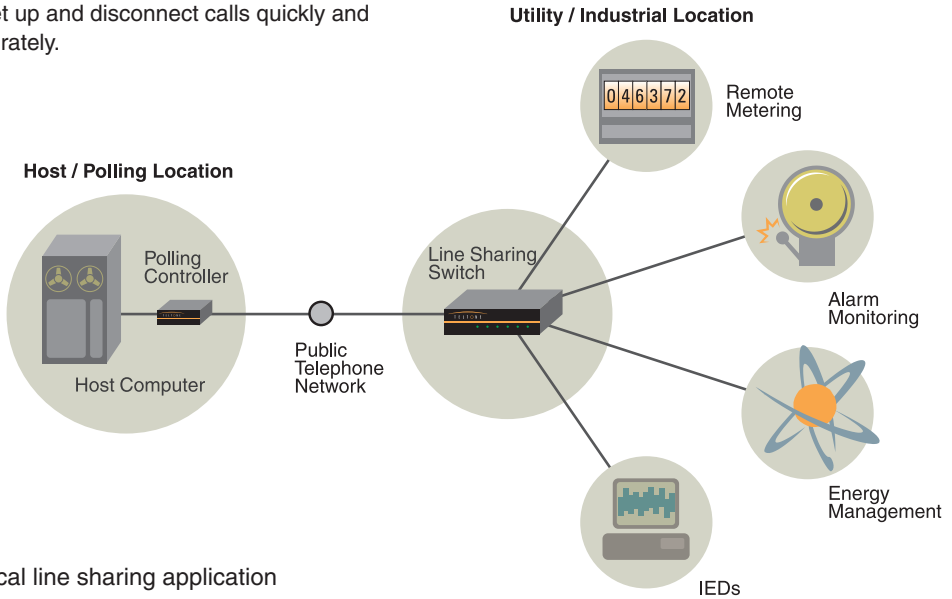
**Efficient Polling Connections from Host**

When the Line Sharing Switch and Polling Controller are connected in a dual-unit architecture “polling system,” they make the most cost-effective and functional outbound system of its type. In this configuration, the Polling Controller is located at the central polling location, and a Line Sharing Switch is located at the remote location. These components communicate across the public switched network to set up and disconnect calls quickly and accurately.

At the beginning of a polling session, the Polling Controller receives the host dial string and converts this to a proprietary access code. This code is sent to the Line Sharing Switch, which then routes the call to the requested device. If no access code is received by the Line Sharing Switch, calls are defaulted to the telephone port. By deflecting uncoded calls, a barrier is erected in front of your remote modems, adding to the protection your system has from unauthorized entry.

**Outbound Dialing from Remote Locations**

The Line Sharing Switch eliminates the cost of extra lines at your remote site regardless of whether you dial your call from your host or from your remote location. The Line Sharing Switch will allow you to share the outbound access of one line with two to four devices and prioritize how each device can interrupt the others to use the line. Any device that can be connected to a standard telephone line can receive or place calls through the Line Sharing Switch, including telephones, modems, point-of-sale terminals, credit/debit authorization




Typical line sharing application

terminals, fax machines, voice mail systems, answering machines, and others. A Polling Controller is only required at your host site if you need to download data or new software to the remote site. You get significant line cost savings and line access flexibility.

**Simple Installation and Setup**
Installation of the Line Sharing Switch and Polling Controller requires no changes to your existing polling hardware. The Automatic Generation of Transfer Code feature in the Polling Controller can also eliminate any dialing string changes. All connections are made through standard telephone or power connectors in an easy-to-understand configuration. To select desired access options, you can program the Line Sharing Switch remotely from a standard touch-tone phone, or Teltone's free Cipher, a Windowsr-based application which streamlines programming of single or multiple Line Sharing Switches or Polling Controllers.

**Emergency Access Priority**
When immediate telephone access at the remote location is needed during a polling session, personnel can break the connection and use the line if you authorize such calls. Teltone's Line Sharing Switch can be programmed to properly end the data session and quickly give the caller priority. The unit supports three priority configurations:

**Emergency Priority:** If data transfer is in progress, the telephone receives a dial tone generated internally by the Line Sharing Switch. The dialed digits are screened for "allowed" or "disallowed" numbers. (For example, 9-1-1 emergency calls could be allowed, but personal phone numbers disallowed.) When the Line Sharing Switch detects an "allowed" telephone number, it properly halts data transfer and frees the phone line for the telephone user.

**Total Priority:** When a caller goes off-hook, the Line Sharing Switch halts data transfer and gives immediate access to the line. This option can be used to interrupt polling sessions for credit authorization calls.

**No Priority:** The line is not available to the telephone user or other ports when a data transfer session is taking place.

## specifications

### Line Sharing Switch

| | | |
|---|---|---|
| **Power Requirements:** | 20 VDC </= DC Input </= 34 VDC | |
| | Current Draw | 500 mA maximum |
| | UL/CSA supply | 24 VDC, 120 VAC ± 10%, 60 Hz, 0.2 A max. (Included with unit) |
| **Incoming Line Ring Detect** | Ring trips within 200 mS after end of first ring cycle. | |
| | Frequency | 5 to 68 Hz |
| | Voltage | 50 VRMS min |
| | Ringer Equivalence | 2.0B max |
| **Incoming Loop Hold Circuit** | DC resistance of approximately 240 ohms. | |
| **Local Ring Generator** | 50 VRMS min at 4 ringer equivalence | |
| | Ringing Frequency | Rounded square wave output at 20 Hz. 2.0 S on/4.0 S off ± 10% |
| **Indicators:** | Power and Status | |
| **Dimensions:** | 1.50" H x 5.50"W x 9.00"D | |
| **Environmental Specifications:** | Operating Temperature: | -20°C to +60°C |
| | Maximum Relative Humidity: | 90% |

### Polling Controller

| | | |
|---|---|---|
| **Power Requirements:** | Wall mount UL/CSA listed power supply or rack mounted shelf. | |
| **Call Progress Tones:** | All call progress tones sent to the Switched Network are precise tones per Bellcore LSSGR. | |
| **Indicators:** | Power and Status | |
| **Dimensions:** | Polling Controller: | 1.53"H x 5.06"W x 5.30"D |
| | Controller Carrier: | 6.96"H x 17.30"W x 12.00"D (19" rackmount for 8 Polling Controllers) |
| **Environmental Specifications:** | Operating Temperature: | 0 to 50 degrees C |
| | Maximum Relative Humidity: | 90% |

### General Information

| | | |
|---|---|---|
| **Regulatory Compliance:** | FCC Part 68: | LSS, Polling Controller, and Carrier comply. |
| | FCC Part 15: | LSS meets FCC Part 15 Class B verification. Polling Controller and Carrier meet FCC Part 15 Class A verification. |
| | DOC CS-03: | LSS, Polling Controller, and Carrier comply. |
| **Warranty Information:** | Parts and labor for 12 months. | |
| **Patent Information:** | U.S. Patent No. 5,241,587 | |

**Quick Payback**
Teltone's Line Sharing Switch and Polling Controller easily pay for themselves in less than one year, based on typical business telephone line rates. In the longer term, the high quality design and tested reliability of the units ensure that they will pay you back with years of trouble-free service.

**System Components**
- Line Sharing Switch located at the remote location where lines are being consolidated. Versions available to support two and four port applications.
- Polling Controller located at the central polling or host location.
- Controller Carrier available for mounting up to eight Polling Controllers in standard equipment rack.

**For the latest product info, complete specs, downloads and more, visit www.teltone.com**

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