

Telephone Line Managers

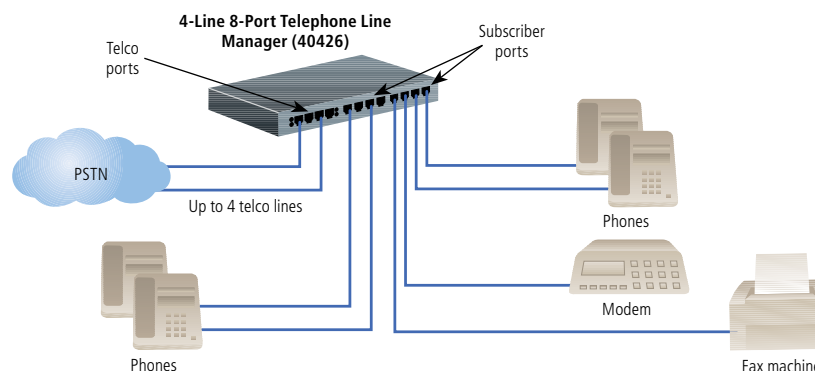
Need online access for multiple users? Don't add more phone lines—just use the lines you already have more economically.



FEATURES

- » Share one, two, four, or more phone lines among multiple analog phone devices.
- » Operate automatically, on the fly.
- » Maintain isolation (keep calls from interrupting each other).
- » Don't cause line noise.
- » No LAN or software required.
- » Transparent to high-speed data rates.
- » Cascade or add expansion modules as your needs increase.
- » One security device on each telco line can protect all devices on subscriber ports.

When placing outbound calls, any of the eight subscriber ports on the 4-Line 8-Port Manager can bid for any of the four available telco lines simply by going off-hook.



OVERVIEW

If you're in a small or medium-sized business, odds are that you have more people needing to use the phone than you have available phone lines. Rather than installing more lines, use our [Telephone Line Managers](#) to help your office phone-system users share the telco lines already installed in your building.

Maybe you've tried line sharers before, only to discover that they let modem calls interrupt voice calls or vice versa. [Telephone Line Managers](#) are different—they prevent later outbound calls from interrupting earlier ones. And they can handle inbound calls, too.

Unlike other devices that first answer incoming calls and then re-ring the subscribers, the managers are very fast and inobtrusive. They operate on the fly, and once the connection is established, they're transparent to calls that come through them.

The managers don't put extra jitter or noise on the line. Also, they don't cause the voltage on the line to drop by more than 1.5 volts, which keeps even the most sensitive modems happy. Plus they can support any modem data rate that standard phone lines can carry.

The [Telephone Line Managers](#) accommodate everyone from the single-telephone-line user to companies with six or more phone lines. You can attach them to all kinds of analog devices, including modems, faxes, PBXes, voice phones, and the analog ports of ISDN terminal adapters.

The managers are completely automatic; they don't have to be programmed, and most models don't even need to be configured.

We offer four manager Base Unit models and three Expansion Modules. These differ in how many phone-line ports and subscriber (device) ports they have.

- The 1-Line 4-Port and 1-Line 8-Port Base Units (40423 and 40424) share one phone line among four or eight devices, respectively. They are powered by the voltage present on the phone line.

- The 2-Line and 4-Line 8-Port Base Units (40425 and 40426) share two or four phone lines, respectively, among eight devices. They are powered by an included external transformer.
- The S and T Expansion Modules (40427, usable with the 2-Line 8-Port Base Unit; and 40428 and 40429, usable with the 4-Line 8-Port Base Unit), each add eight subscriber ports to your system. The T Module also adds two telco ports. Modules can be stacked to create large switching systems. They get their power from the base unit.

All manager ports are standard RJ-11 telco connectors that use the center two pins.

Instead of using expansion modules to add ports, you can cascade base units by connecting a telco port on one base unit to the subscriber port on another. (Don't cascade from the subscriber ports of 1-Line Base Units, though.)

When placing outbound calls, any of a 2-Line or 4-Line Base Unit's subscriber ports can bid for any of the available telco lines simply by going off-hook. If all of the lines are in use, the device won't get a dial tone.

On the 4-Line Base Unit, you can enable or disable inbound calls to individual ports. Inbound calls to ring-disabled ports are quickly aborted to keep the lines available for outbound calls.

When you use the T Module with a 4-Line Base Unit, the devices have access to two high-priority primary lines and two shared alternate lines only for outbound calls. Inbound calls are routed to the first two devices.

You can put security devices on a manager's telco lines to protect all subscriber-port devices.

TECH SPECS



Top: 40423;
bottom: 40426

Compliance — EMI/RFI: FCC Part 15 Subpart B Class A, IC Class/classe A;
Phone-system compatibility: FCC Part 68 (registration number 4E1USA-21459-KX-N)

Ringer-Equivalence Number — 0.2 B

Line Type — 2-wire dialup

Maximum Distance — 40423–40424: 150 ft. (45.7 m) from Manager to analog phone device

User Controls — 40426: (1) Rear-mounted 4-position ring enable/disable DIP switch for telco/subscriber ports 1 through 4;
40429: (1) Rear-mounted 4-position ring enable/disable DIP switch for telco/subscriber ports 1 and 2 (DIP-switch positions 3 and 4 are unused);
(7) Internal jumpers for temporary S Module conversion

MTBF — 86,000 hours

Interface — Modular telco (PSTN)

Connectors —
For power: (1) Rear-mounted 2.1-mm jack;
To line:
40423–40424: (1) Front-mounted RJ-11 (4-pin) female;
40425: (2) Rear-mounted RJ-11 (4-pin) female;
40426: (4) Front-mounted RJ-12 (6-pin) female;
40427–40428: None;
40429: (2) Front-mounted RJ-12 (6-pin) female;
To devices: All RJ-12 (6-pin) female:
40423: (4) front-mounted;
40424: (4) front-mounted, (4) rear-mounted;
40425–40429: (8) front-mounted;
For expansion (40427–40429 only): (1) Rear-mounted DB25 female;
Additional connectors used to link base units together:
40425–40426: (1) DB25 female

Indicators — 40423–40424: (1) Front-mounted busy LED;
40425: (3) Rear-mounted LEDs: (1) Power, (2) Busy [(1) for each telco port];
40426: (1) Rear-mounted power LED, (4) Front-mounted busy LEDs [(1) for each telco port];
40427–40428: (1) Rear-mounted power LED;
40429: (1) Rear-mounted power LED, (2) Front-mounted busy LEDs [(1) for each telco port]

Temperature Tolerance —
Operating: 32 to 122°F (0 to 50°C);
Storage: -40 to +158°F (-40 to +70°C)

Humidity Tolerance — Up to 95% noncondensing

Maximum Altitude — 10,000 ft. (3048 m)

Power — 40423–40424: 3 VDC from telco line;
40425–40426: 9 VAC at less than 100 mA from 110-VAC wallmount transformer;
40427–40429: 9 VAC at less than 100 mA from Base Unit through expansion cable

Size —
40423–40425: 1.25"H x 4"W x 3"D (3.2 x 10.2 x 7.6 cm);
40426–40429: 1.8"H x 7"W x 5.5"D (4.6 x 17.8 x 14 cm)

Weight —
40423–40424: 0.3 lb. (0.1 kg);
40425–40426: Net (chassis only): 1 lb. (0.5 kg);
Shipping (chassis plus power supply): 1.5 lb. (0.7 kg);
40427–40429: 1 lb. (0.5 kg)

What's included

- ◆ The Telephone Line Manager Base Unit or Expansion Module.
- ◆ A users' manual.
- ◆ 40425 and 40426 only: A power supply.

Item	Code
Telephone Line Manager	
1-Line 4-Port Base Unit	40423
1-Line 8-Port Base Unit	40424
2-Line 8-Port Base Unit	40425
4-Line 8-Port Base Unit	40426
S Expansion Module for 40425	40427
S Expansion Module for 40426	40428
T Expansion Module for 40426	40429

You may also need...
RJ-11 (4-Wire) Modular Cable **EL04MS-MM**
Lock and Key Set (for phone security) **39625**

Call Black Box Tech Support for help determining your best AC-power and phone-line surge-protection options.