

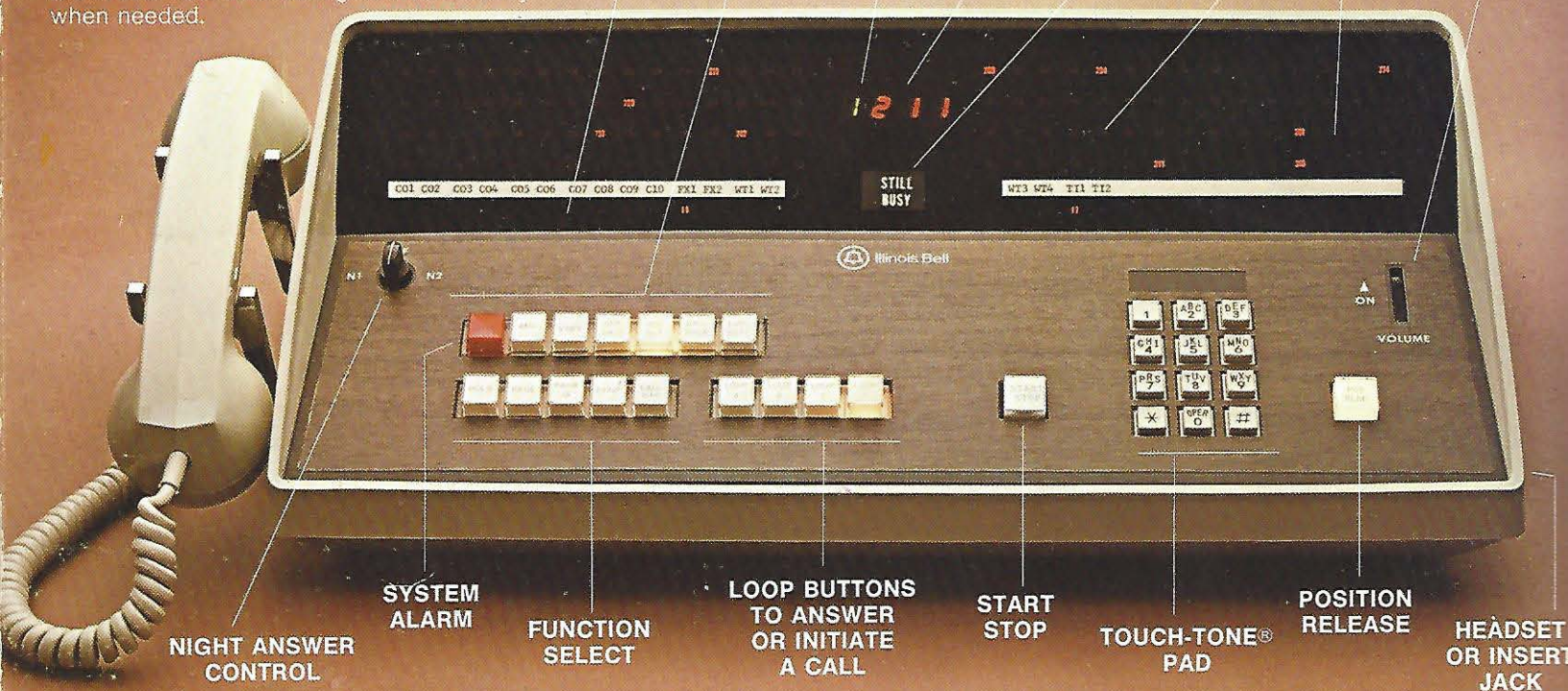
100E

SWITCHING SYSTEM

 Illinois Bell

CONSOLE DESCRIPTION

The 100E Switching System features an exciting new console. It helps your attendant decide instantly how to answer each call. Big, bright displays indicate the type of call and class of service, permitting your attendant to respond quickly and correctly. Busy lines can be seen at a glance: line numbers light up to show which lines are in use. Your attendant gets involved only when needed.



TECHNICAL CHARACTERISTICS

DESIGN:

Stored Program Common Control — Time Division Multiplex (Pulse Code Modulation) Network.

CAPACITY:

Lines 120
Trunks 28
Trunk Groups 8

System expansion:

By plug-in electronic card.
8 lines per card. 4 trunks per card.

STATION HUNTING GROUPS:

10

MAX LINES PER HUNTING GROUP:

119

TRAFFIC:

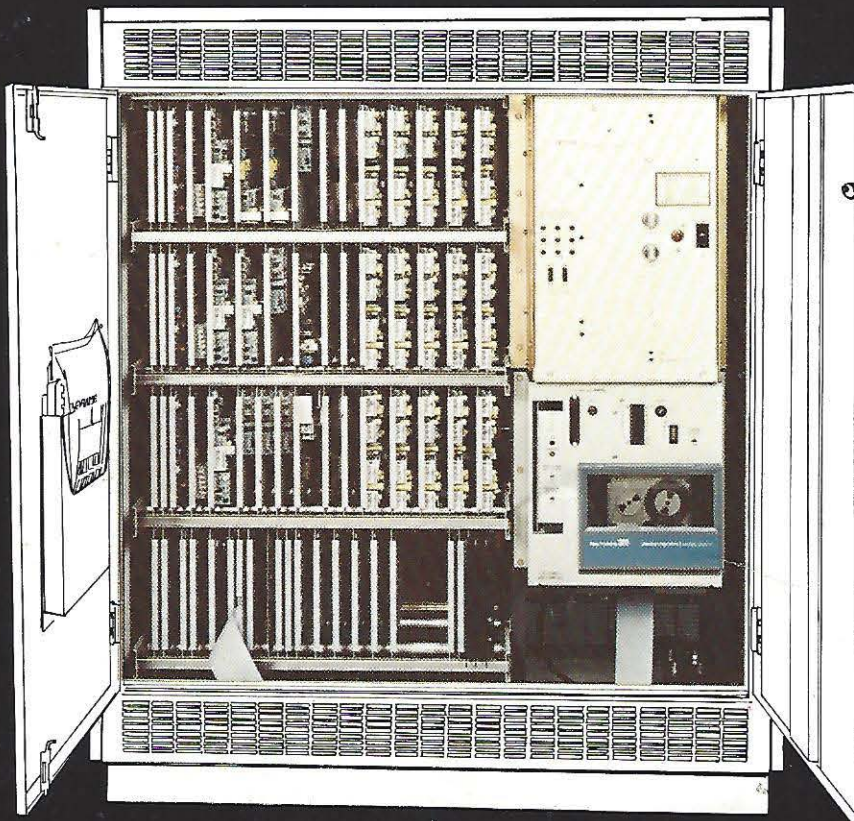
9CCS/Line average at P.02 with 120 lines, 28 trunks.
1480 Busy Hour Call Attempts, 36 Simultaneous Conversations.

MEMORY CAPACITY:

32,000 words.

MEMORY PROTECTION:

System memory will be automatically reloaded via a read-only memory and a magnetic tape if commercial AC power is interrupted. Reloading will take place when AC power is restored.



DIALING REQUIREMENTS:

Touch-Tone, Dial Pulse or Mixed.

ENVIRONMENT:

Temperature: 45° to 105°F.
Ambient relative humidity: 20% minimum, 80% maximum.

EQUIPMENT PACKAGING:

Cabinet size: 49" H x 41½" W x 23¾" D.
Desk console: 5½" H x 18½" W x 11¾" D.

FLOOR LOADING:

100 lbs. per square foot.

TRUNK TYPES:

Two-way ground/loop start (C.O.).
Two-wire E&M signaling (tie line).
Two-wire loop signaling (tie line, C.O., WATS, FX, CCSA).
Direct T1 Interface.

POWER REQUIREMENTS:

115V AC, 60 Hz, 20 Amps (commercial)—separately fused. Maximum AC drain, 12 Amps.

TRANSMISSION LEVEL:

Meets Via Net Loss or Fixed Loss Plan requirements.

FEATURES TO MEET A BROAD RANGE OF REQUIREMENTS

System Features

- **DATA LINE SECURITY** Protects stations assigned to data transmission from any interruption. (You can also use this feature to insure privacy on executive telephones.)
- **DISTINCTIVE RINGING** Tells you whether a call for you is coming from inside or outside the company.
- **DIRECT OUTWARD DIALING** You can dial your own outside calls. No waiting for the attendant.
- **FIXED NIGHT CONNECTIONS** Allows for automatic routing of after-hours calls to predetermined telephones. Better off-hours coverage.
- **FLEXIBLE NIGHT CONNECTIONS** Lets your attendant change the night answering telephone arrangement to meet special needs. Gives you the adaptability you need for seasonal or other variations in off-hours telephone requirements.
- **POWER FAILURE TRANSFER** If commercial power fails, you can still use pre-selected telephones to make and receive calls.
- **REMOTE ACCESS** Permits you to access your 100E Switching System when you are not at a company location. Using a Touch-Tone® phone, you can dial into the system at any time of the day or night and get full access to your trunk lines — WATS, FX, tie lines, etc. Allows you to make maximum use of your communications system.
- **LOUDSPEAKER PAGING AND CODE CALLING*** Provides direct access to code call or paging systems for your attendant or designated telephone users. Faster call handling and in-house communications.
- **MUSIC ON HOLD*** Connects calls on hold or camp-on to a music source. Makes waiting more pleasant for your callers.

- **RECORDED TELEPHONE DICTATION ACCESS*** Allows your telephone users to connect directly to your centralized dictation equipment.

Attendant Features

- **ALPHA-NUMERIC DISPLAY** Allows the attendant to distinguish different types of incoming calls — In-Wats, FX, etc. Also alerts the attendant to the station number and class of service of any inside telephone requesting attendant assistance, so that calling from restricted stations can be controlled.
- **BUSY LAMP FIELD** Trunk and station numbers light up to show attendant which trunks and telephones are in use. Speeds call handling.
- **CALL WAITING WITH TIMED REMINDER** Informs you that the attendant has another call waiting for you when you're on the phone. Allows the attendant to connect the second call so that it will ring automatically on your telephone when you hang up from the first call. Saves attendant time and reduces the likelihood of lost calls.
- **ATTENDANT CONFERENCE*** Your attendant can establish a conference of up to ten inside and outside parties. A great way to resolve warehouse, distribution, sales, or customer service problems.

Station User Features

- **AUTOMATIC CALLBACK — CALLING** If you find the party you're trying to call is already on the phone, you can arrange for the system to call both you and the other party — automatically — as soon as both phones are free. An important time saver.
- **CALL PICK-UP** Allows you to use your own telephone to answer calls ringing on other phones in a pre-set group. Saves on wasted motion and improves coverage.

- **CALL WAITING—TERMINATING** When you're on your telephone, a distinctive tone lets you know a call from another telephone on the system is waiting. Helps speed in-office communications.

- **STATION RESTRICTION** Limits calling privileges of certain telephones. You can choose between a wide variety of restrictions and tailor each telephone to its user's needs. Helps prevent unauthorized use.

- **STATION-TO-STATION CALLING** You can call any other telephone on the system without attendant assistance. Quick interaction with any part of the operation.

- **THREE-WAY CONFERENCE TRANSFER** You can hold a call, consult privately with another party, set up a 3-way conference or transfer a call to another telephone — all from your own phone, with no need for attendant assistance. Saves time, and the cost of callbacks.

- **TRUNK ANSWER — ANY STATION** When attendant is off duty any telephone user can answer an incoming call and if necessary transfer it. New off-hours flexibility.

- **MEET-ME CONFERENCE*** You and up to nine other people on the system can set up your own conference call simply by dialing a conference number. Quick decision making with no wasted steps.

- **PROGRESSIVE CONFERENCE*** You can originate a conference call and then add on other parties as needed, until as many as ten people are in on the discussion. You don't have to arrange a conference ahead of time, and that means on-the-spot problem solving.

... and more

A host of additional features all designed around your needs ... all directed toward solving your problems.

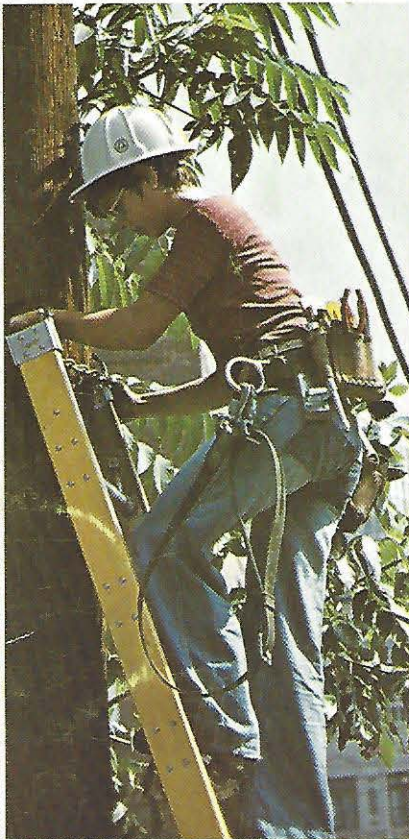
*Optional

BACKED BY THE BELL SYSTEM:

We feel a communications system should mean more than just equipment and telephones. It should have the type of support you get from Illinois Bell as part of our total package. These extras include:



ACCOUNT EXECUTIVES to work with you in analyzing your total communications systems needs.



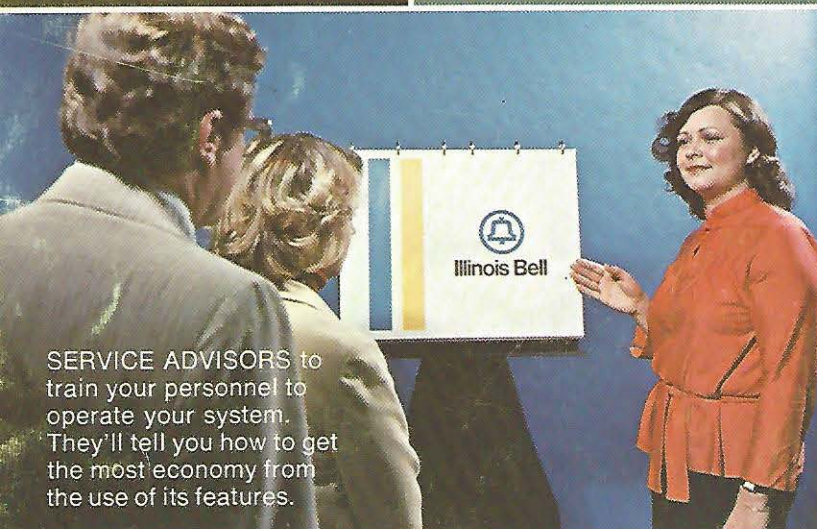
INSTALLATION AND MAINTENANCE — well-trained personnel to install your equipment, make rearrangements, and, most importantly, to keep your system in top working condition.



COMMUNICATIONS CONSULTANTS to custom-tailor the equipment with the proper mix of services and features to meet your unique requirements.



COMMUNICATIONS SYSTEMS REPRESENTATIVES — to lend their technical knowledge to every phase of your communication system planning.



SERVICE ADVISORS to train your personnel to operate your system. They'll tell you how to get the most economy from the use of its features.



BUSINESS SERVICE REPRESENTATIVES to help you with billing questions and day to day additions and changes in your system.

TOTAL SUPPORT FROM YOUR BELL SYSTEM TEAM.

TCI Library: www.telephonecollectors.info

