



The SPERRY UNIVAC UTS 40 is a microprocessor-based intelligent communications terminal which is user programmable with up to 64K bytes of user memory. It supports a wide range of peripheral devices including printers, diskette subsystems and magnetic stripe reader. Programming of the UTS 40 is accomplished easily, using COBOL. Hence, this device combines the attributes of a data communications terminal with many features of a desktop computer.

The UTS 40 consists of a 12-inch diagonal CRT display and selection of three different pluggable keyboards. The expanded keyboard (94 keys)

provides a typewriter layout (ISO 3243) plus function and numeric pads. For the Japanese market, a Katakana keyboard is available. Lastly, a UTS 400 compatible keyboard with domestic USA keycaps is offered.

Two basic versions of the UTS 40 are available—the single station UTS 40 and the cluster workstation UTS 40W. As a single station the SPERRY UNIVAC UTS 40 communicates with a host system via an RS 232/V.24 modem interface or via a direct connect to a host communications multiplexer. It is supported on the SPERRY UNIVAC System 80, V77, Series 1100, and Series 90 mainframe systems.

The “personality” of the UTS 40 is provided by means of a

program cartridge which plugs into the back of the unit. A UTS 400 mode program cartridge will be available with the UTS 40.

Program cartridges offer several advantages to users of the UTS 40. Among these are:

- The ability to incorporate system updates by user insertion of a new cartridge
- The capability to take advantage of future terminal enhancements without having to upgrade to an entirely new terminal.

As a local workstation, the UTS 40W is directly attachable to the UTS 4020 or UTS 4040 cluster controllers. Up to 12 workstations can be locally attached to the

UTS 4020 cluster controller and up to 31 to the UTS 4040 cluster controller. The UTS 40W cluster workstation does not require a program cartridge nor a modem interface. Its microcode is loaded at very high speed from the cluster controller.

Underlying the design of the UTS 40 are extensive human engineering considerations derived from accumulated experience on similar and related terminals. As a result, the UTS 40 is designed for easy straight-forward operation. The optional tilt/rotate base minimizes the need for awkward head or body positions. The operator's field of view of the display is well within normal eye span; the keyboard is designed for comfortable touch-typing and the terminal is virtually silent. All the control keys required to operate the terminal and initiate data transfer are located on the keyboard and are easily reached. Because the keyboard is similar to that of a typewriter, little additional training is required to operate the terminal system and use its many extra capabilities. If the operator desires, the terminal will generate an audible click for each character successfully entered from the keyboard.

The non-glare visual display consists of green characters on a dark background. The entire display is flicker-free and the characters are sharp and bright, resulting in excellent legibility and clarity of presentation. Character brightness is operator adjustable. The nearly vertical CRT provides a natural viewing angle. All of these features provide maximum viewing comfort for the operator.

The SPERRY UNIVAC UTS 40 offers extensive hardware and software functionality in the

areas of programmability and peripheral configurability. This allows users to solve sophisticated data entry applications with considerable local processing while, at the same time, maintaining all traditional capabilities of an interactive terminal.

#### **Programmability**

- UTS COBOL (Subset of ANSI Std. X3.23—1974)
- Diskette utilities

UTS COBOL programs are compiled in a SPERRY UNIVAC host system (Series 1100, System 80 or Series 90).

#### **Peripheral Configurability**

- Up to four peripherals
- Up to four megabytes of diskette storage
- Choice of four printer models
  - 80 column matrix printer, 80 cps
  - 132 column matrix printer, 200 cps
  - correspondence quality printer
  - 0789 line printer

#### **Software Utilities**

- Diskette file management
- Text processing utility
- Loadable character set generator

Other features of the UTS 40 include:

- Character descenders
- Reverse video and high/low intensity
- User entry of site parameters including station and device identifiers
- 25th display line for indicators
- Line monitor function via control page
- UNISCOPE character protect in basic unit
- Up to 80 field control characters per line
- New emphasis attributes such as underline and strike-through

The UTS 40W cluster workstation may be configured with one printer and one 8406 diskette subsystem. User memory is available for the loading of certain utility software such as the Text Processing Utility.

For more information on this advanced terminal system, contact your local Sperry Univac representative.



### **SPERRY UNIVAC UTS 40**

#### **FUNCTIONAL CHARACTERISTICS**

##### **Display Format Selections**

Any display format may be selected from 2 lines of 2 characters each to 24 lines of 80 characters each.

##### **View Area**

10 inches x 7 inches

##### **Display Size**

12 inch diagonal

##### **Character Generation**

7 by 11 dot matrix, refresh rate of 60 or 50 times per second

##### **Character Generator**

Standard 96-character set (128 characters in Katakana)

##### **Transmission Code**

7-level ASCII plus parity bit

##### **Transmission Mode**

Half-duplex

##### **Transmission Facilities**

Voice grade (telephone switched network or private line)

### Transmission Type

Synchronous

### Transmission Rates

Up to 9,600 bits per second

### Communications interfaces

EIA RS-232C/CCITT V.24

### Data Integrity Provisions

- Minimum single bit error detection on communication line and peripheral transfers
- Automatic retry with communication line and peripheral transfers
- Internal parity checking

### Two Security Keylocks (std)

Operator  
Supervisor

### Selective Addressing

Host processor can select any terminal or peripheral device or both. Host can initiate data transfer from the terminal or peripherals.

### Keyboards

- Expanded typewriter (full function with numeric keypad)
- UTS 400 formal
- Katakana/English

### Language Selections (expanded typewriter keyboard only)

Domestic (U.S. ASCII)  
United Kingdom  
French  
German  
Spanish  
Danish/Norwegian  
Finnish/Swedish  
Italian

### Protected Format

Protection of specified data fields as defined by field control characters or UNISCOPE character protect sequences.

### Program Attention Keys

Keys that generate unique codes for use as requests or indicators to host or user programs, extending operational and system control.

### Editing and Other Function Keys

- cursor control
- character, field, line, screen editing
- peripheral control
- miscellaneous

### PHYSICAL CHARACTERISTICS

Width: 16.75 inches (42.5 cm)  
Height: 12.75 inches (32.5 cm)  
Depth: 17.00 inches (43.0 cm)  
Weight: 40 pounds (18 kg)

### POWER REQUIREMENTS

#### Nominal Voltage

110, 120, 220 or 240 volts

#### Nominal Frequency

50 or 60 Hz

#### Phases and Lines

Single phase, 3 wire

#### Input Power Required

150 volt-amps

#### Heat Dissipation

274 BTU/hr.

#### Power Dissipation

468 kj/hr.

### SPERRY UNIVAC Magnetic Stripe Reader

### FUNCTIONAL CHARACTERISTICS

#### Code Formats

American Bankers Assoc. (ABA) up to 40 numeric characters.  
International Air Transport Assoc. (IATA) up to 79 alphanumeric characters.

#### Read Speed

Data is transferred to the UTS 40 a character at a time in 20 ms intervals.

### PHYSICAL CHARACTERISTICS

Width: 1.64 inches (4.2 cm)  
Height: 1.37 inches (3.5 cm)  
Depth: 7.75 inches (19.7 cm)  
Weight: 1 pound (0.45 kg)

### PERIPHERAL DEVICES

### SPERRY UNIVAC 8406 Double-sided Diskette Subsystem

### FUNCTIONAL CHARACTERISTICS

#### Storage capacity per diskette

1 megabyte (maximum 2 diskette drives per subsystem)

#### Transfer rate

62.5 kilobytes per second

### PHYSICAL CHARACTERISTICS

Width: 20.25 inches (51.5 cm)  
Height: 9.0 inches (22.9 cm)  
Depth: 16.75 inches (42.5 cm)  
Weight:

Approx. 35 pounds (15.88 kg) (with single diskette drive)  
50 pounds, 22.68 kg, with dual drive)

### POWER REQUIREMENTS

#### Nominal voltage

100, 120, 220, or 240 volts

#### Nominal frequency

50 or 60 Hz

### SPERRY UNIVAC 0798 132-column Matrix Printer

### FUNCTIONAL CHARACTERISTICS

#### Print Speed

200 characters per second

#### Character Sets

A selection of national sets available

#### Character Matrix

7 x 7 standard half space dot

### PHYSICAL CHARACTERISTICS

Width: 22.6 inches (57.5 cm)  
Height: 9.6 inches (24.5 cm)  
Depth: 19.0 inches (48.5 cm)  
Weight: 55.0 pounds (25 kg)

### POWER REQUIREMENTS

#### Nominal primary power

100 or 120 volts at 60 Hz  
100, 220, or 240 volts at 50 Hz

**SPERRY UNIVAC 0797**  
**80-column Matrix Printer**

**FUNCTIONAL  
CHARACTERISTICS**

**Print Speed**  
80 CPS

**Character Sets**  
A selection of national sets  
available

**Character Matrix**  
9 x 7 half space dot matrix

**PHYSICAL CHARACTERISTICS**

Width: 13.4 inches (34 cm)  
Height: 4.25 inches (10.8 cm)  
Depth: 9.6 inches (24.5 cm)  
Weight: 13.2 pounds (6 kg)

**SPERRY UNIVAC 0791**  
**Correspondence Quality Printer**

**FUNCTIONAL  
CHARACTERISTICS**

**Print Speed**  
45 characters per second

**Character Set**  
Daisy wheel technology  
A selection of national sets  
available

**PHYSICAL CHARACTERISTICS**

Width: 26 inches (66.04 cm)  
Height: 10 inches (25.4 cm)  
Depth: 24 inches (60.96 cm)  
Weight: 35 pounds (15.88 kg)

**POWER REQUIREMENTS**

Nominal primary power:  
100 or 120 volts at 60 Hz  
200 or 240 volts at 50 Hz

**SPERRY UNIVAC**  
**0789 Line Printer**

**FUNCTIONAL  
CHARACTERISTICS**

**Printing Rates**  
Three (3) models provide print  
speeds of 180 LPM, 300 LPM or  
640 LPM for 48 character  
font sets.

**Character Sets**  
48, 64, 96, 128 and 192 character  
array print bands are available.  
National Character Sets included.

**PHYSICAL CHARACTERISTICS**

Width: 34 inches (86.4 cm)  
Height: 44 inches (111.8 cm)  
Depth: 31 inches (78.7 cm)  
Weight: 300 pounds (136.1 kg)  
180, 300 LPM  
400 pounds (181.5 kg)  
600 LPM

**POWER REQUIREMENTS**

**Nominal Voltage:**  
100/120 Volts

**Nominal Frequency:**  
60 Hz\*\*

**Phase and Lines:**  
Single Phase—3 wire

**Nominal Load:**  
Approximately 180,  
300 LPM—250 Watts  
600 LPM—400 Watts

\*\*50 Hz Models available  
100/200/240 Volts