

SWITCHED DIGITAL DATA SYSTEM

DATA AUXILIARY SET 821A-TYPE

IDENTIFICATION

1. GENERAL

1.01 This section identifies data auxiliary set (DAS) 821A-type. Information concerning customer-provided equipment (CPE) or the switched data service units (DSUs) associated with the DAS 821A-type is not included.

1.02 This section is reissued to include changes as a result of verification.

1.03 DAS 821A-L1 (orderable coding) is used as customer station equipment to provide control functions for the switched digital data system (SDDS).

2. DESCRIPTION

2.01 DAS 821A-type, as shown in Fig. 1, is used in conjunction with the 501A-type DSU to provide manual origination, termination, and answering of SDDS calls. Visual call status indications and audible alerting are also provided. DAS 821A-type interfaces with 501A-type DSUs operating at the SDDS data rate of 9.6 or 56 kb/s.

2.02 DAS 821A-type is designed for desk-top mounting and consists of a housing, ringer circuit pack (CP) (841572290), dial CP (841316243), tone ringer, and a 6-foot cord terminated with a 50-pin connector for connection to the 501A-type DSU.

2.03 Dimensions of DAS 821A-type are approximately 6.5 inches wide, 4.1 inches deep, and 2.3 inches high. The DAS weighs approximately 1.9 pounds.

2.04 The DAS operates in an environment of 40 to 120°F with a relative humidity of less than 95 percent. The required operating voltages (+5 and +12 Vdc) are obtained from the associated

501A-type DSU. Maximum power dissipation is 1.5 watts.

Switches and Indicators

2.05 The following switches and corresponding light-emitting diode (LED) indicators are accessible from the front of the DAS 821A-type.

- **MM (Manual Mode)**—Depressing this switch causes the associated 501A-type DSU to exchange manual and automatic modes. The MM LED is illuminated when the DSU is in the manual mode.
- **NR (Not Ready)**—Depressing this switch when the 501A-type DSU is in the call-off state places the DSU in the not-ready mode and illuminates the NR LED.
- **CALL**—When the DSU is in the call-off state, depressing this switch causes the data station (DAS-DSU) to go into the call-on state. The associated CALL LED is illuminated when the data station is in the call-on state.
- **CONNECT**—This LED illuminates when the DSU enters the data mode as a result of either answering or originating a call.
- **REMOTE RING**—This LED illuminates when the calling DSU receives remote-ring call progress characters.
- **RECALL**—Illumination of this LED indicates that the present call attempt is unsuccessful.
- **PROCEED**—Illumination of this LED indicates that the data station can transmit the address of the called station.

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement



Fig. 1—Data Auxiliary Set 821A-Type—Front View

2.06 The 2-digit call progress LED display, visible through the DAS faceplate when lighted, indicates the progress of a call by displaying coded numbers. The coded numbers are transmitted to the originating data station by the hub office. The display remains illuminated until the call-off mode is entered.

2.07 The array of pushbutton switches located on the DAS 821A-type is similar to the Touch-Tone® pad. When the PROCEED LED is illuminated, depressing a key causes the DSU to transmit a single ASCII character.

2.08 The audible level of the DAS tone ringer is controlled by the 3-position slide switch which is located beneath the DAS.

3. REFERENCES

3.01 The schematic drawing (SD) and circuit description (CD) covering DAS 821A-type are SD- and CD-1D255-01.

3.02 Bell System Practices containing additional information pertaining to DAS 821A-type and associated equipment are listed below.

SECTION	TITLE	SECTION	TITLE
314-900-191	Engineering and Implementation Methods for the Switched Digital Data System	595-300-200	Switched Digital Data System—501A-Type Data Service Unit—Installation and Connections
595-300-100	Switched Digital Data System—501A-Type Data Service Unit—Description and Operation	595-300-300	Switched Digital Data System—501A-Type Data Service Unit—Maintenance
595-300-180	Switched Digital Data System—501A-Type Data Service Unit (DSU) and Data Auxiliary Set 821A-Type— Summarizing Specification	595-300-500	Switched Digital Data System—501A-Type Data Service Unit—Test Procedures