AUA17 DS1 DIGITAL CONNECTIVITY UNIT-RIGHT 5SCS500AXX

DATA SHEET

SLC ® SERIES 5 CARRIER SYSTEM

The AUA17 Digital Connectivity Unit-Right (DCU-R) works together with the AUA16 Digital Connectivity Unit-Left (DCU-L) at either the central office terminal (COT) or remote terminal (RT) to provide a DS1 rate interface with an Fs framing format. At the COT this allows, via a DSX-1 cross-connect, connection to an M12 or an M13 multiplexer, a DACS digital cross-connect, a T1 line (office repeater interface), or to another DCU in a companion Series 5 COT. At the RT, it can interface a variety of customer provided equip-

ment such as a D4-type channel bank, a D4 Digital Data Bank, a T1 line (office repeater interface), multiplexer, or a digital PBX.

Figure 1 is a functional block diagram of the unit, and Figure 2 shows the faceplate.

The input (CRPCM) from the transmit-receive unit (TRU) and the output (LRPCM) to the DCU-L are in pulse code modulation (PCM) format. Data channels
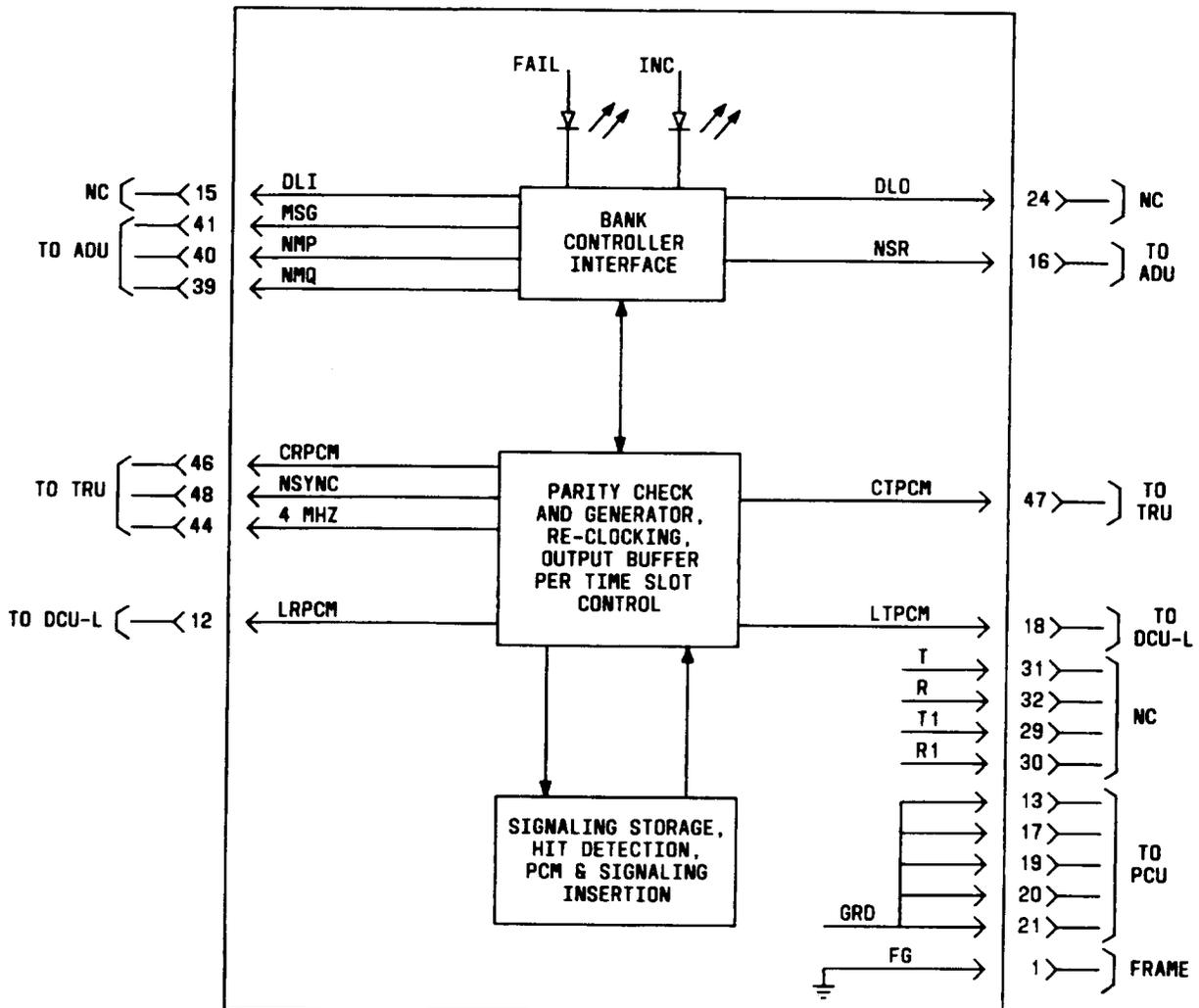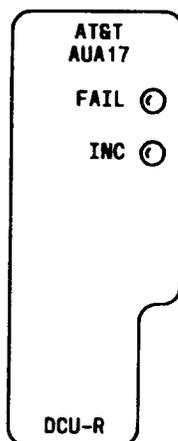

Fig. 1—AUA17 Block Diagram

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   ┌─────────────┐
   │   AT&T      │
   │   AUA17     │
   │             │
   │   FAIL  ◎   │
   │             │
   │   INC   ◎   │
   │             │
   │             │
   │             │
   │             │
   │             │
   │             │
   │             │
   │             │
   │             │
   │   DCU-R     │
   └─────────────┘
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Fig. 2—AUA17 Faceplate

pass through the DCU-R unchanged. For voice frequency (VF) channels, the DCU-R provides the signaling storage and PCM quiet capability normally provided by VF channel units in the SLC Series 5 system. Signaling bits are stored for 16 superframes. When a line hit is first detected, the DCU-R substitutes the current signaling with the oldest available signaling bits and substitutes the current PCM with PCM quiet. If the hit lasts more than 2.5-seconds, the signaling bits are forced high and PCM quiet is sent. When the hit condition clears, current PCM and signaling are again sent. The output (CTPCM) of the DCU-R goes to the TRU. The input (LTPCM) comes from the DCU-L.

Faceplate LEDs indicate as follows:

- *FAIL (Red LED):* When lighted, indicates that a failure has been sectionalized to this DCU-R.

- *INC (Yellow LED):* When lighted, indicates an incoming DS1 alarm condition as detected by the associated DCU-L.