SLC® Series 5 Carrier System

MC97775A1 (RT) Bank Control Unit — 5SPQ10W

This data sheet describes the MC97775A1 bank control unit (BCU) (COMCODE 106186315) and is intended for the end-user of the unit. The MC97775A1 BCU is used in the *SLC*® Series 5 Carrier System Feature Package I (FPI) remote terminal (RT).

Table 1 lists RT applications using the MC97775A1 BCU. Figure 1 is a functional block diagram of the MC97775A1 BCU, and Figure 2 shows the faceplate.

Together, the MC97775A1 BCU and the AUB28 alarm display unit (ADU) form the bank controller for the FPI RT. The MC97775A1 BCU must be used with the AUA161 and AUA162 LIUs (Table 1).

The bank controller provides the following functions.

- Internal performance monitoring and fault diagnosis
- System options and system identification switching
- Channel unit provisioning coefficient memory
- Per line testing control using the pair gain test controller
- System alarms and Mode 2 traffic information handling
- Operations Interface support.

The BCU contains a microcomputer that is the core of the bank controller. It also has system program memory, electrically erasable programmable read-only memory (EEPROM) for the semipermanent storage of channel unit provisioning coefficients and random access memory.

The following LED indicators and pin jack are located on the faceplate of the BCU.

FAIL (Red LED) — When lighted, this LED indicates a failure has been found on the BCU.

PMN (Yellow LED) — When lighted, this LED indicates a failure in the AC power plant or the AC rectifier at the RT site.

MISC1 (Yellow LED) — When lighted, this LED indicates that the RTMISC1 input closure at the RT has been activated.

MISC2 (Yellow LED) — When lighted, this LED indicates that the RTMISC2 input closure at the RT has been activated.

A (Red LED) — When lighted, this LED indicates that the A digroup is in trunk processing.

B (Red LED) — When lighted, this LED indicates that the B digroup is in trunk processing.

C (Red LED) — When lighted, this LED indicates that the C digroup is in trunk processing.

D (Red LED) — When lighted, this LED indicates that the D digroup is in trunk processing.

PROV TRANS (pin jack) — When a pin is inserted into this jack (only on *reset*), the BCU transfers provisioning coefficients from an AUB28 ADU at the RT to itself without first checking the cyclic redundancy check (CRC) bytes contained in the AUA111 TRU.

Table 1. MC97775A1 BCU Applications

Service Configurations	ADU	TRU	LIUs	SIU
FPI with OI	AUB28	AUA111	AUA161, AUA162	AUA77 *

* The AUA77 SIU is only required in the *master* RT — other RTs connect using the local area network (LAN).

Abbreviations:

ADU — alarm display unit
BCU — bank control unit
LIU — line interface unit
OI — Operations Interface
SIU — site interface unit
TRU — transmit/receive unit

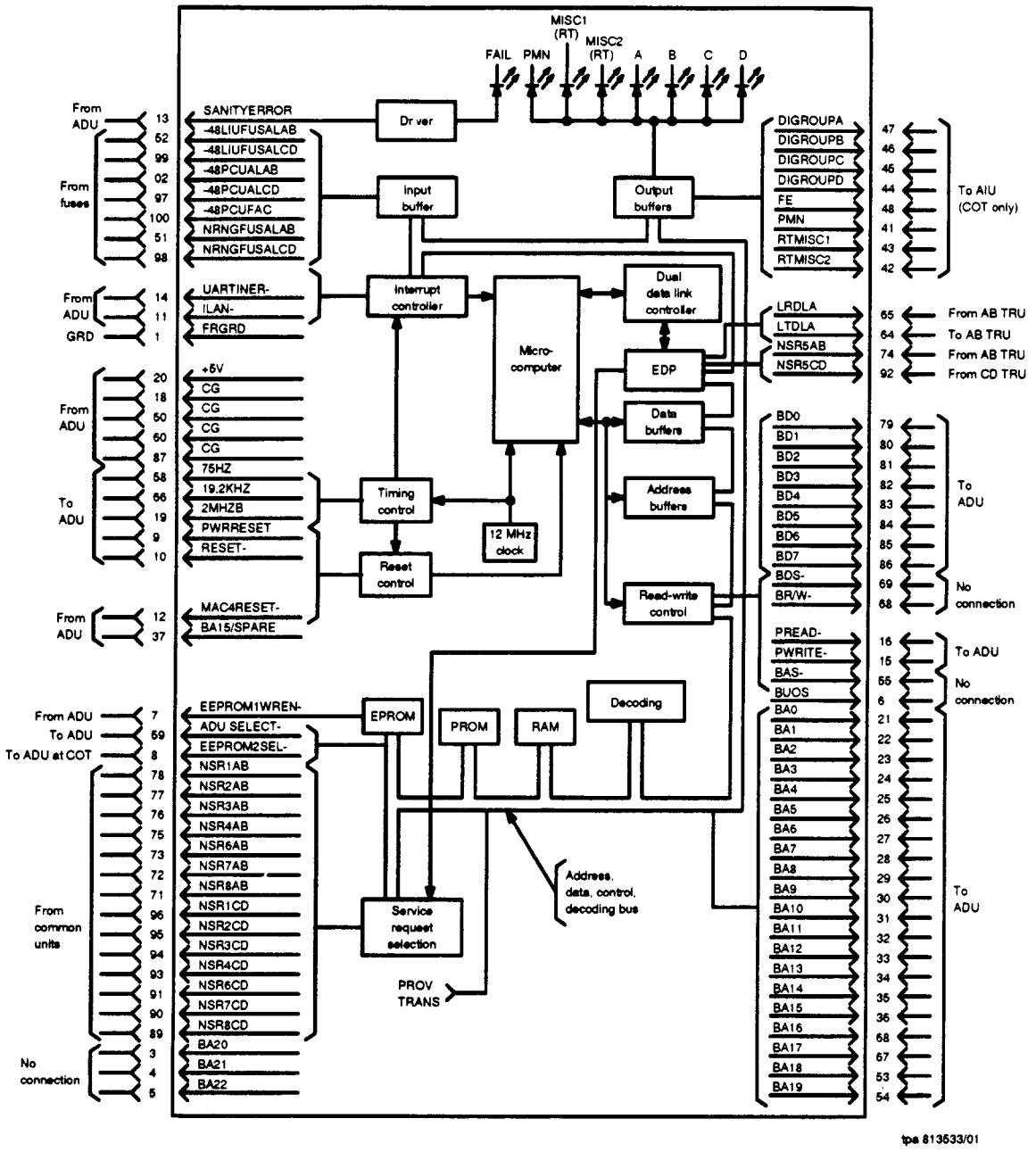

Figure 1. MC97775A1 RT Bank Control Unit Block Diagram

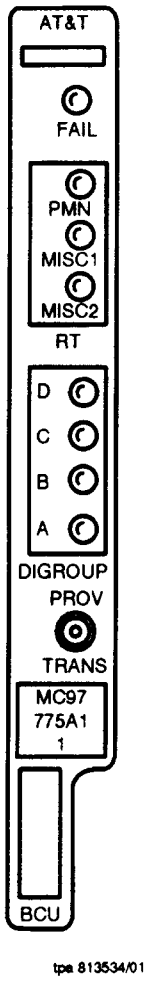

Figure 2. MC97775A1 RT Bank Control Unit Faceplate

Follow local procedures for obtaining technical assistance. AT&T also provides in-hours or emergency out-of-hours help for the *SLC* Series 5 Carrier System. Call the AT&T Regional Technical Assistance Center at **1-800-225-RTAC.**

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