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## **SLC<sup>®</sup> Series 5 Carrier System**

### **MC97779A1 (RT) Bank Control Unit (FPF MSDT) — 5SXTA04**

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This data sheet describes the MC97779A1 bank control unit (BCU) (COMCODE 106486087) and is intended for the end-user of the unit. The MC97779A1 BCU is used in the SLC<sup>®</sup> Series 5 Feature Package F (FPF) remote terminal (RT) which provides the interface for the Fiber-To-The-Home Multi-Services Distant Terminal (MSDT).

Table 1 lists the applications for the MC97779A1 BCU. Figure 1 is a functional block diagram of the MC97779A1 BCU, and Figure 2 shows the faceplate.

Together, the MC97779A1 BCU and the alarm display unit (ADU) perform the bank controller (BC) functions for the RT. In FPF applications, the MC97779A1 BCU must operate with the AUB27 ADU.

The bank controller provides the following functions:

- Conducts internal performance monitoring and fault diagnosis
- Provides switches for system options and system identification
- Provides memory for channel unit provisioning coefficients, controls per line testing using the pair gain test controller (PGTC)
- Provides T1 line protection switching.

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 RT communicates with the central office terminal (COT) or switch over a data link embedded in the A digroup. The BCU controls this data link to exchange system alarms, T1 protection switching, and circuit test information between the central office (CO) and the RT.

The following LED indicators are located on the faceplate of the MC97779A1 BCU.

**FAIL** (Red LED): When lighted, this LED indicates a failure has been identified at the MC97779A1 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 LED 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.

**Table 1. MC97779A1 BCU Applications**

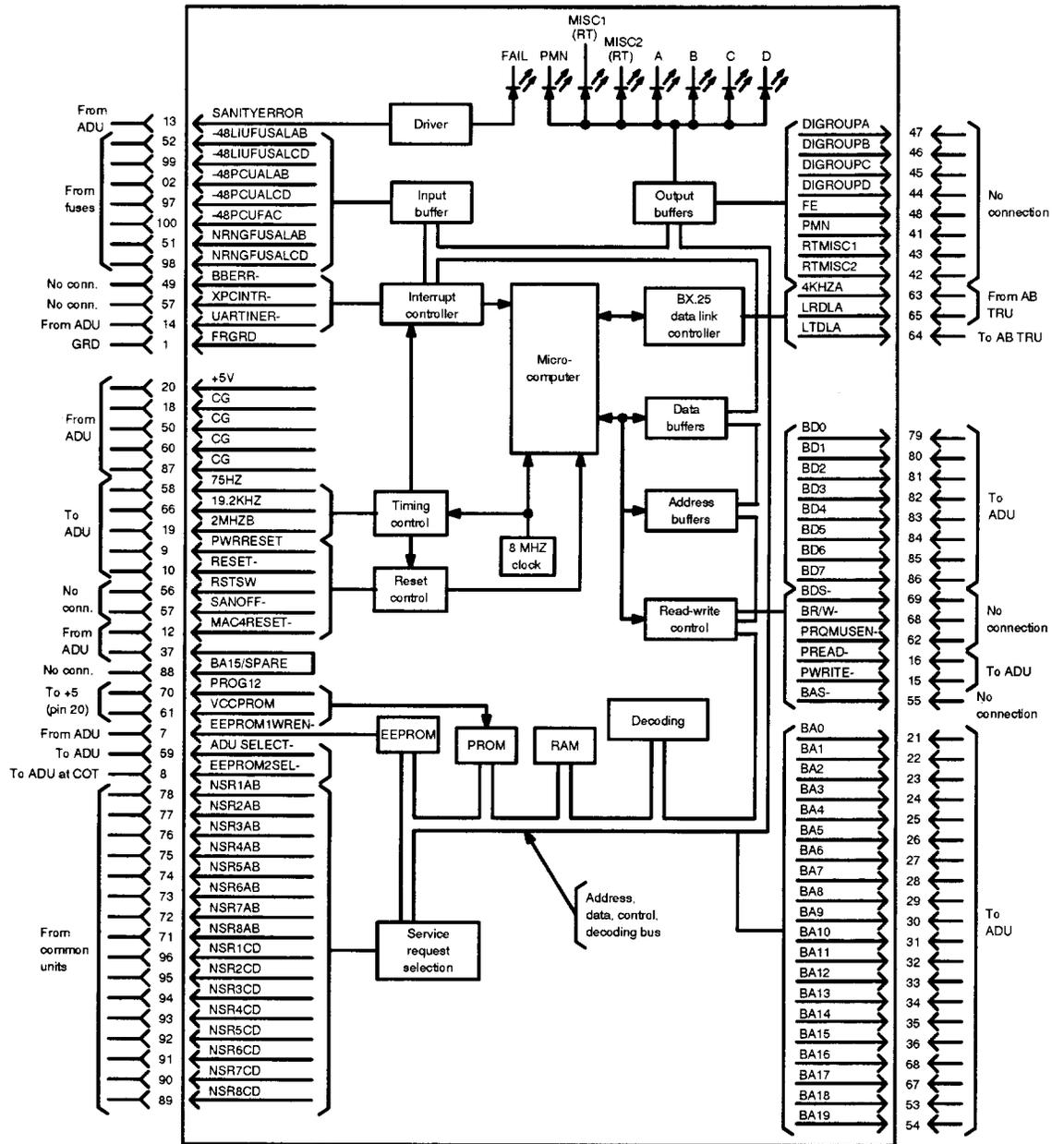
<u>Service Configuration</u>	<u>ADU</u>	<u>TRU</u>	<u>LIUs</u>	<u>RT Channel Units</u>
FPF *	AUB27	AUA105	C or D Series	AUA406

\* Feature Package F supports all Feature Package C (FPC) services except the digital connectivity unit (DCU).

**Abbreviations :**

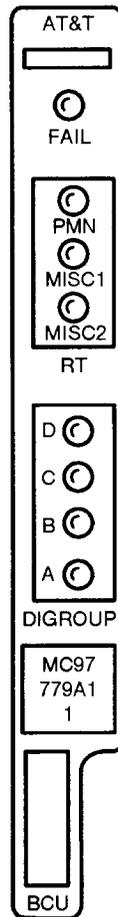
ADU — alarm display unit	FPF — Feature Package F
BCU — bank control unit	LIU — line interface unit
DCU — digital connectivity unit	TRU — transmit/receive unit
FPC — Feature Package C	

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Figure 1. MC97779A1 RT BCU Block Diagram



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**Figure 2. MC97779A1 RT BCU Faceplate**

In-hours or emergency out-of-hours technical assistance for the *SLC* Series 5 Carrier System can be obtained by calling the Regional Technical Assistance Center at **1-800-225-RTAC**.

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