AUB24 (RT) ALARM DISPLAY UNIT - MODE 96 5SCSB00BXX DATA SHEET *SLC*® SERIES 5 CARRIER SYSTEM

The AUB24 ADU (alarm display unit) (COMCODE 103841201) is used in the *SLC* Series 5 Carrier System FPB (Feature Package B) RT (remote terminal) for either Mode 1 or Mode 2 (concentrated) applications with POTS/*SPOTS*® channel units. The AUB24 ADU is used with the MC97724A1 BCU (bank control unit) for Mode 1 applications, or with the MC97771A1 BCU for Mode 1 or Mode 2 applications. Together, the BCU and AUB24 ADU form the bank controller for the *SLC* Series 5 FPB (Mode 96) RT bank.

This practice is reissued to add information on the use of the AUB24 ADU for Mode 2 applications using the MC97771A1 BCU.

Figure 1 is a functional block diagram of the unit and Figure 2 shows the board outline and the position of the switches and indicators. TABLE A list the switch settings for the AUB24 ADU and TABLE B lists RT applications using the AUB24 ADU.

The Mode 96 RT provides the same interface to the digital facility and to the terminal in the CO (central office) as does a *SLC* 96 Carrier System remote terminal. The Mode 96 RT can work with a *SLC* 96 Carrier System COT (central office terminal) or any other terminal that presents a similar interface to the RT [for example, the *5ESS*® Switch DCLU (digital carrier line unit)]. The bank controller handles internal performance monitoring and fault diagnosis, craft inputs, per line testing via the PGTC (Pair Gain Test Controller), and T1 line protection switching for the Mode 96 bank.

The AUB24 provides a serial interface to the other plug-ins in the bank. The bank controller uses this serial link to control the plug-ins and the indicator lights on the plug-ins. The AUB24 also has a controller that drives the *SLC* 96 Carrier System data link implemented in the A-digroup DS1 signal. In addition, AUB24 has inputs to detect failures in the RT common equipment (such as the ringing generators, the rectifiers, the battery chargers, and the ac power plant) and miscellaneous building alarms.

FAIL (Red LED): When lighted, this LED indicates that the failure has been sectionalized to this AUB24 ADU.

MJ (Red LED): When lighted, this LED indicates that this 96-line bank has an active MAJOR alarm. A MAJOR alarm means that at least one 24-channel digroup is out of service.

MN (Yellow LED): When lighted, this LED indicates that this 96-line bank has an active MINOR alarm. A MINOR alarm means that no digroups are currently out of service, although a subsequent failure may cause an outage if the MINOR alarm condition is not fixed.

FE (Yellow LED): When lighted, this LED indicates that the failure has been sectionalized to the far end.

NE (Yellow LED): When lighted, this LED indicates that the failure has been sectionalized to the near end (RT).

LED TEST: While pushed, this faceplate-mounted switch causes all indicators under control of the bank controller to light. This includes all indicators on the ADU, BCU, TRU (transmit/receive unit), LSU (line switching unit), LIU (line interface unit), and CTU (channel test unit). Indicators on the PCU (power converter units), CU (channel units), rectifiers, battery chargers, and ringing generators are not affected by the LED TEST button.

PROT. LINE (Position 1): When open, enables the protection line switching option. When closed, disables protection line switching.

2 DS1/4 DS1 (Position 2): When open, enables the bank for four DS1 lines. When closed, enables the bank for two DS1 lines for Mode 2 applications.

AB PRESERVICE/INSERVICE (Position 3): When open, puts the AB shelf in the preservice state. When closed, puts the AB shelf in the inservice state.

CD PRESERVICE/INSERVICE (Position 4): When open, puts the CD shelf in the preservice state. When closed, puts the CD shelf in the inservice state.

AB EQUIPPED/UNEQUIPPED (Position 5): When closed, marks the AB shelf as equipped with its common plug-ins. When open, marks the AB shelf as unequipped.

CD EQUIPPED/UNEQUIPPED (Position 6): When closed, marks the CD shelf as equipped with its common plug-ins. When open, marks the CD shelf as unequipped.

DATA LINK FIELD LENGTH (Position 7): When open, this switch selects a 13-bit field length for communicating with the terminal at the other end of the system. This switch is always set to open.

TABLE A
AUB24 SWITCH SETTINGS

CLOSED	POSITION	OPEN
NO PROTECTION LINE	1	PROTECTION LINE
2 DS1	2	4 DS1
AB IN-SERVICE	3	AB PRE-SERVICE
CD IN-SERVICE	4	CD PRE-SERVICE
AB EQUIPPED	5	AB UNEQUIPPED
CD EQUIPPED	6	CD UNEQUIPPED
—	7*	13 BIT FIELD LENGTH
NOT USED	8	NOT USED

* Switch position 7 *must* always be in the OPEN position. The switch is considered to be OPEN when depressed away from the number and CLOSED when depressed towards the number.

Technical assistance for the *SLC* Series 5 Carrier System can be obtained by calling the Regional Technical Assistance Center at **1-800-225-RTAC**. This telephone number is staffed 24 hours per day.

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TABLE B
FPB/FPC-AUTOCUT APPLICATIONS

SERVICE CONFIGURATIONS (NOTES 1 AND 2)	BCUs		ADUs		TRUs			LIUs
	MC97724A1	MC97771A1	AUB24	AUB27	AUA22	AUA109	AUA105	AUA61()/62()/64()
FPB WITHOUT PROVISIONABLE SPECIALS:								
FPB/U/M1	✓		✓		✓			ANY
		✓	✓		✓	✓	✓	
FPB/U/M2		✓	✓				✓	*D* SERIES
FPB/I/M1	✓		✓		✓			ANY
		✓	✓		✓	✓	✓	
FPB/I/M2		✓	✓				✓	*D* SERIES
FPB WITH PROVISIONABLE SPECIALS:								
FPB/SS/U/M1		✓		✓	✓	✓	✓	ANY
FPB/SS/U/M2		✓		✓			✓	*D* SERIES
FPB/SS/I/M1		✓		✓	✓	✓	✓	ANY
FPB/SS/I/M2		✓		✓			✓	*D* SERIES
FPC WITH AUTOCUT: (NOTES 3 AND 4)								
FPC/AC		✓		✓		✓	✓	C or *D* SERIES

Notes:

1. Where more than one unit is checked for a particular configuration, any of the units checked may be used.
2. In all cases, Mode 2 capability can be converted to Mode 1 by changing ADU option setting and adding two LIUs.
3. FPC/AC supports all FPC services except DCU.
4. FPC/AC automatically cuts to FPB/SS/M1. By initially selecting D LIUs and AUA105 TRU, the RT will be equipped for later conversion to a Mode 2 configuration.

Abbreviations:

ADU — Alarm Display Unit
BCU — Bank Control Unit
DCU — Digital Connectivity Unit
FPB — Feature Package B
FPC/AC — Feature Package C-AutoCut
I — Integrated
LIU — Line Interface Unit
M1 — Mode 1
M2 — Mode 2 (Concentrated)
SS — Special Services (Provisionable)
TRU — Transmit/Receive Unit
U — Universal

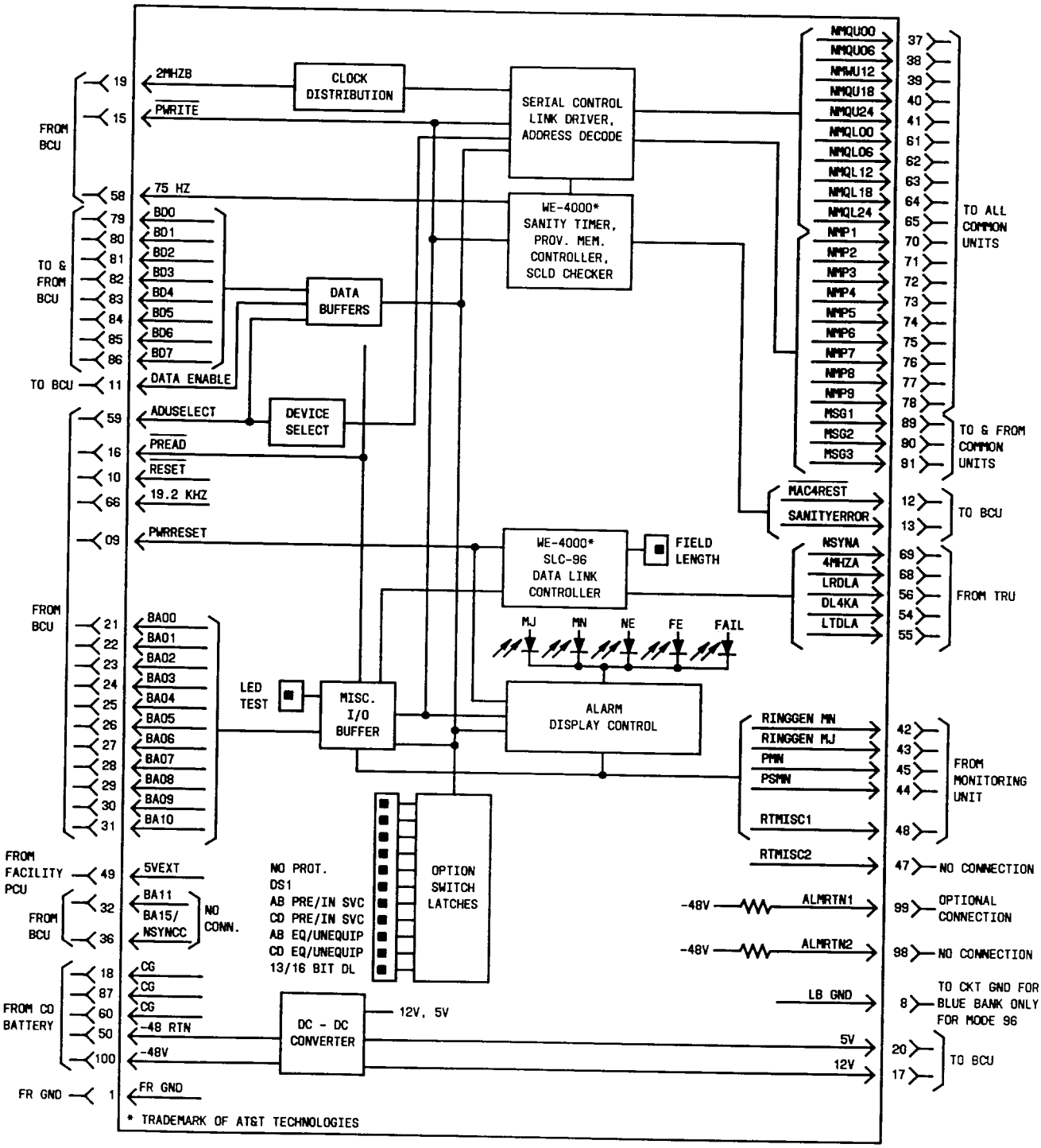

Figure 1—AUB24 block diagram

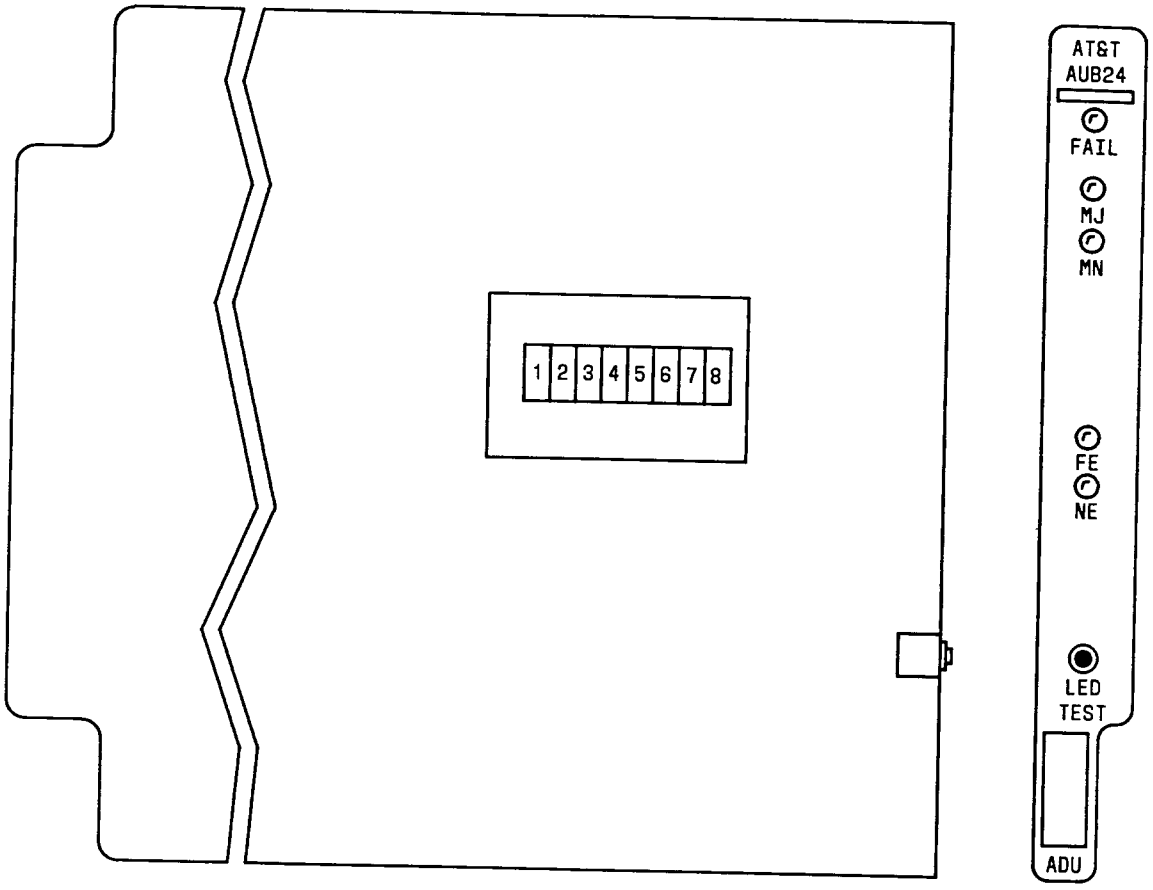

Figure 2—AUB24 components and faceplate