AT&T

SLC® Series 5 Carrier System

AUB3B (COT) Alarm Interface Unit - 5SCD30F

Data Sheet

This data sheet describes the AUB3B alarm interface unit (AIU) (COMCODE 106430127) and is intended for the end-user of the unit. The AUB3B AIU is used in the *SLC*® Series 5 central office terminal (COT). It provides the interface between the dual 96-line bank module in which it is located and the central office (CO) and remote alarm reporting systems.

Table 1 lists the pinout designations and functions, Figure 1 is a functional block diagram of the AUB3B unit, and Figure 2 shows the faceplate and switch location.

The AUB3B accepts inputs from the COT alarm display unit (ADU) (for example AUB6) and the COT bank control unit (BCU) (for example MC97755A1) in both the lower (blue) 96-line bank and the upper (white) 96-line bank. Separate system identification (Sys ID) closures are produced for the blue and white banks. The other alarm outputs from each bank are combined within the AUB3B to produce one set of output closures. All the AUB3B outputs to the external alarm reporting systems are floating (electrically isolated) relay closures. These closures are connected to the CO and remote alarm systems. The Sys ID closures are wired separately, while the others are multipled with the output from other AUB3B AIUs in the office.

The AUB3B replaces the AUB3. The AUB3B provides the same functions as the AUB3 with two major differences in the two designs:

- The AUB3B uses closures for CO, bay, and remote alarms that are all rated for the higher surge currents — the AUB3 uses closures with the higher rating for only the major, minor, power-minor, and near-end alarms.
- The AUB3B eliminates unused option switches — the AUB3B has one option switch.

The AUB3B provides two sets of MAJOR, MINOR, and power minor (PMN) closures for the CO alarms — one each for the audible and visual systems. When the CO does not have a PMN reporting system, an internal switch is used to convert these alarms to MINOR alarms.

The AUB3B provides two sets of Sys ID, MAJOR, MINOR, PMN, near end (NE), carrier line failure (CLF), far end (FE), incoming (INC), digroup A-D, RT MISC1, and RT MISC2 closures for connection to remote alarm reporting systems. This allows *SLC* Series 5 Carrier System alarms to be reported to two different remote sites. The AUB3B also provides contact closures to operate the bay MAJOR, MINOR, and PMN alarm lights mounted on the top heat baffle.

Special circuitry on the AUB3B ensures proper alarm reporting during bank controller (BC) failures and during power failures.

The AUB3B also provides for local and remote alarm cut-off (ACO) action.

ACO (Faceplate-mounted switch): When pressed, this pushbutton switch cuts off the bay alarm lights and the audible and visual alarm outputs to the CO and remote reporting systems. Bank indicator lights and the Sys ID closure are not affected by the ACO.

PMN/MN (Board-mounted switch): When the switch is in the C1 position (PMN), AC and rectifier failures in the RT turn on the bay PMN light and the CO PMN audible/visual alarms. When the switch is in the C2 position (MN), AC and rectifier failures in the RT turn on the bay MN light and the CO MN audible/visual alarms.

Table 1. Pin Designations and Functions

Pin	Symbol	I/O	Description
1	FR GND	—	Frame Ground
2	BAYPMN	O	Bay Power Minor
3	BAYCOMN	O	Bay Central Office Minor
4	BAYMJ	O	Bay Major
5	NEAREND2–	O	Near End status return to 2nd maintenance center (MC)
6	NEAREND2	O	Near End status to 2nd MC
7	NEAREND1–	O	Near End status return to 1st MC
8	NEAREND1	O	Near End status to 1st MC
9	IDXL2–	O	Blue system ID status return to 2nd MC
10	IDXL2	O	Blue system ID status to 2nd MC
11	IDXL1–	O	Blue system ID status return to 1st MC
12	IDXL1	O	Blue system ID status to 1st MC
13	IDXU2–	O	White system ID status return to 2nd MC
14	IDXU2	O	White system ID status to 2nd MC
15	IDXU1–	O	White system ID status return to 1st MC
16	IDXU1	O	White system ID status to 1st MC
17	RACO	I	Remote Alarm Cut Off from MC
18	CG	—	Circuit Ground
19	INC1–	O	DCU Incoming DS1 failure status return to 1st MC
20	INC1	O	DCU Incoming DS1 failure status to 1st MC
21	DIGROUPD2–	O	Digroup D status return to 2nd MC
22	DIGROUPD2	O	Digroup D status to 2nd MC
23	DIGROUPD1–	O	Digroup D status return to 1st MC
24	DIGROUPD1	O	Digroup D status to 1st MC
25	DIGROUPC2–	O	Digroup C status return to 2nd MC
26	DIGROUPC2	O	Digroup C status to 2nd MC
27	DIGROUPC1–	O	Digroup C status return to 1st MC
28	DIGROUPC1	O	Digroup C status to 1st MC
29	DIGROUPB2–	O	B Digroup status return to 2nd MC
30	DIGROUPB2	O	B Digroup status to 2nd MC
31	DIGROUPB1–	O	B Digroup status return to 1st MC
32	DIGROUPB1	O	B Digroup status to 1st MC
33	DIGROUPA2–	O	A Digroup status return to 2nd MC
34	DIGROUPA2	O	A Digroup status to 2nd MC
35	DIGROUPA1–	O	A Digroup status return to 1st MC

Table 1. Pin Designations and Functions (Contd)

Pin	Symbol	I/O	Description
36	DIGROUPA1	O	A Digroup status to 1st MC
37	FAREND2–	O	Far End status return to 2nd MC
38	FAREND2	O	Far End status to 2nd MC
39	FAREND1–	O	Far End status return to 1st MC
40	FAREND1	O	Far End status to 1st MC
41	PMN	I	Power Minor alarm from blue and white BCUs
42	RTMISC2	I	Remote Terminal Misc. 2 from blue and white BCUs
43	RTMISC1	I	Remote Terminal Misc. 1 from blue and white BCUs
44	DIGROUPD	I	Digroup D status from blue and white BCUs
45	DIGROUPC	I	Digroup C status from blue and white BCUs
46	DIGROUPB	I	Digroup B status from blue and white BCUs
47	DIGROUPA	I	Digroup A status from blue and white BCUs
48	FE	I	Far End status from blue and white BCUs
49	5VEXT	I	+5 V DC from facility PCU
50	–48VRTN	I	Office battery return
51	MAJOR4–	O	Major alarm return to 2nd MC
52	MAJOR4	O	Major alarm to 2nd MC
53	MAJOR3–	O	Major alarm return to 1st MC
54	MAJOR3	O	Major alarm to 1st MC
55	MAJOR2–	O	Major visual office alarm return
56	MAJOR2	O	Major visual office alarm
57	MAJOR1–	O	Major audible office alarm return
58	MAJOR1	O	Major audible office alarm
59	PMN4–	O	Power Minor visual office alarm return
60	PMN4	O	Power Minor visual office alarm
61	PMN3–	O	Power Minor audible office alarm return
62	PMN3	O	Power Minor audible office alarm
63	PMN2–	O	Power Minor alarm return to 2nd MC
64	PMN2	O	Power Minor alarm to 2nd MC
65	PMN1–	O	Power Minor alarm return to 1st MC
66	PMN1	O	Power Minor alarm to 1st MC
67	INC2–	O	DCU Incoming DS1 failure return to 2nd MC
68	INC2	O	DCU Incoming DS1 failure to 2nd MC
69	CLF2–	O	Carrier Line Failure return to 2nd MC
70	CLF2	O	Carrier Line Failure to 2nd MC

Table 1. Pin Designations and Functions (Contd)

Pin	Symbol	I/O	Description
71	CLF1–	O	Carrier Line Failure return to 1st MC
72	CLF1	O	Carrier Line Failure to 1st MC
73	RTMISC2B–	O	Remote Miscellaneous 2 return to 2nd MC
74	RTMISC2B	O	Remote Miscellaneous 2 to 2nd MC
75	RTMISC2A–	O	Remote Miscellaneous 2 return to 1st MC
76	RTMISC2A	O	Remote Miscellaneous 2 to 1st MC
77	RTMISC1B–	O	Remote Miscellaneous 1 return to 2nd MC
78	RTMISC1B	O	Remote Miscellaneous 1 to 2nd MC
79	RTMISC1A–	O	Remote Miscellaneous 1 return to 1st MC
80	RTMISC1A	O	Remote Miscellaneous to 1st MC
81	RMN2–	O	Minor Alarm return to 2nd MC
82	RMN2	O	Minor Alarm to 2nd MC
83	RMN1–	O	Minor Alarm return to 1st MC
84	RMN1	O	Minor Alarm to 1st MC
85	COMN2–	O	Central Office Minor visible alarm return
86	COMN2	O	Central Office Minor visible alarm
87	CG	—	Circuit Ground
88	COMN1–	O	Central Office Minor audible alarm return
89	COMN1	O	Central Office Minor audible alarm
90	$\overline{\text{UBCINSANE}}$	I	White BCU not insane from white ACU
91	$\overline{\text{LBCINSANE}}$	I	Blue BCU not insane from white ACU
92	ACO	O	Alarm Cut–Off to blue and white ADUs
93	MN	I	Minor Alarm from blue and white ADUs
94	MJ	I	Major Alarm from blue and white ADUs
95	NE	I	Near End from blue and white ADUs
96	IDXL	I	System ID from blue ADU
97	CLF	I	Carrier Line Failure from blue and white ADUs
98	INC	I	DCU Incoming DS1 failure from blue and white ADUs
99	IDXU	I	System ID from white ADU
100	–48V	I	Office Battery

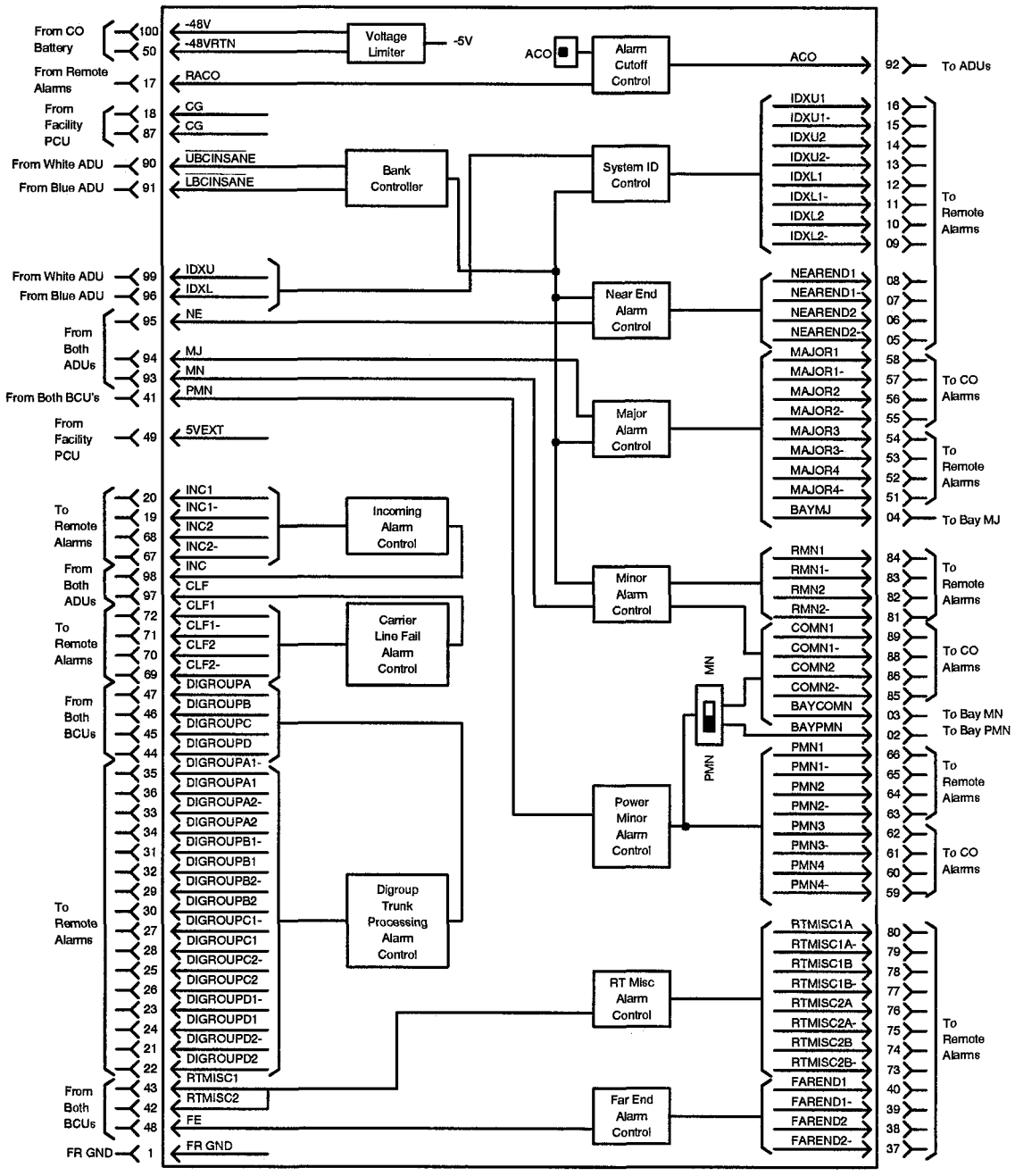

Figure 1. AUB3B Block Diagram

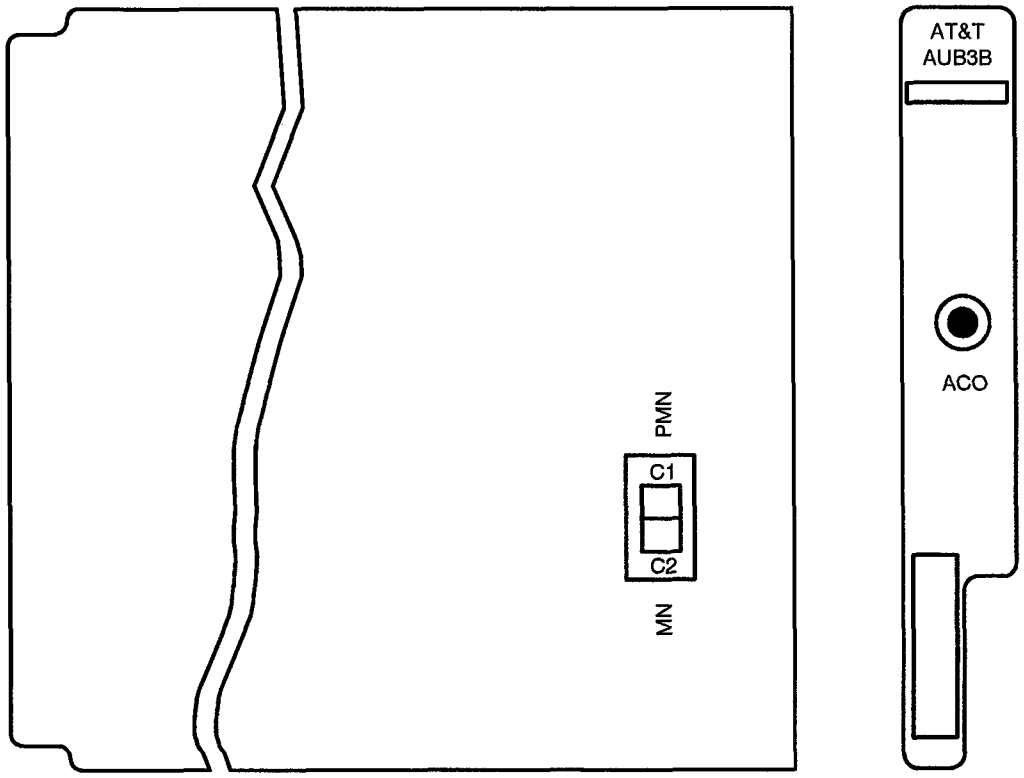

Figure 2. AUB3B Faceplate and Switch Location

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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