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

### ED-7C613-30, G3 Load Distribution Unit — 5SCB10AAAA

#### Data Sheet

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**DANGER:**

*The load distribution unit (LDU) contains hazardous voltage when inserted into its slot.*

This data sheet describes the ED7C613-30, G3 LDU (COMCODE 601251259) and is intended for the end-user of this unit. The ED7C613-30, G3 LDU is used only in remote terminal (RT) applications. One LDU is used in each J1C182BA power shelf.

This data sheet is reissued to add information on the ED-7C613-30, G3 LDU, the functional equivalent of the ED-7C613-30, G1, and to explain usage of the RESTART pushbutton. The Group 3 LDU differs from the Group 1 LDU in that several components have been changed to achieve *UL*\* listing.

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

During normal AC outage or temporary periods of extreme system drains, the backup batteries will switch in and out as needed, without any action at the LDU. In the event of a prolonged AC outage, the LDU will disconnect the system loads to prevent damage to the backup batteries. In the event of a ringing generator failure in the power shelf, the LDU connects a spare ringing generator to ringing loads in associated dual channel banks.

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\* Registered trademark of Underwriters Laboratories, Inc.

**RESTART** (Pushbutton switch): This faceplate-mounted switch is used whenever AC power has been lost (the rectifiers are not operating), and the batteries are disconnected from the -48 volt bus, in which state the LDU is electrically disabled. When fresh batteries are installed, if AC power is still unavailable, pushing the RESTART button causes the LDU detection circuits to be energized, allowing the LDU to connect the batteries to the load bus. If the LDU is removed while AC power is absent and the channel bank is running on the batteries, the batteries are disconnected from the -48 V bus. Reinserting the LDU with no AC present will not reconnect the batteries. When pushed, the RESTART button will reconnect the batteries to the -48 V bus and restore power.

**TEST PROT RG** (Pushbutton switch): When pushed, this faceplate-mounted switch provides for testing the ringing generator.

**-48B, -48L, GND, -20HZ, AC** Jacks: Five faceplate-mounted jacks provide measurement access to -48 volt power on the load and battery sides of the LDU, to -20 Hz ringing power to ground, and to 120-volt AC input power to the 336A1 rectifiers.

**GRP2** Option: These four switches are accessible through the faceplate and provide for adjustable buildout of the order-wire DC resistance. This switch is mounted on a plug-in daughter board, coded ED-7C613-30, G2, which is replaceable through the faceplate. Switch settings for the order-wire buildout resistance versus central office (CO)-RT cable resistance are listed in Table 1.

**Table 1. Switch Settings for Order-Wire Buildout (Line Power 48 Volts)**

CO-RT Cable DC Res $\Omega$	Net Value Res $\Omega$	Switch Positions			
		1	2	3	4
0-250	1748	ON	OFF	OFF	OFF
251-500	1499	ON	OFF	OFF	ON
501-750	1249	ON	OFF	ON	OFF
751-1000	1000	ON	OFF	ON	ON
1001-1250	748	ON	ON	OFF	OFF
1251-1500	499	ON	ON	OFF	ON
1501-1750	249	ON	ON	ON	OFF
1751-2000	0	ON	ON	ON	ON

**T, R, FL1, FL2** Jacks: The LDU provides faceplate-mounted jacks for access to order-wire tip (T) and ring (R), and to fault locate (FL1) and FL2 lines.

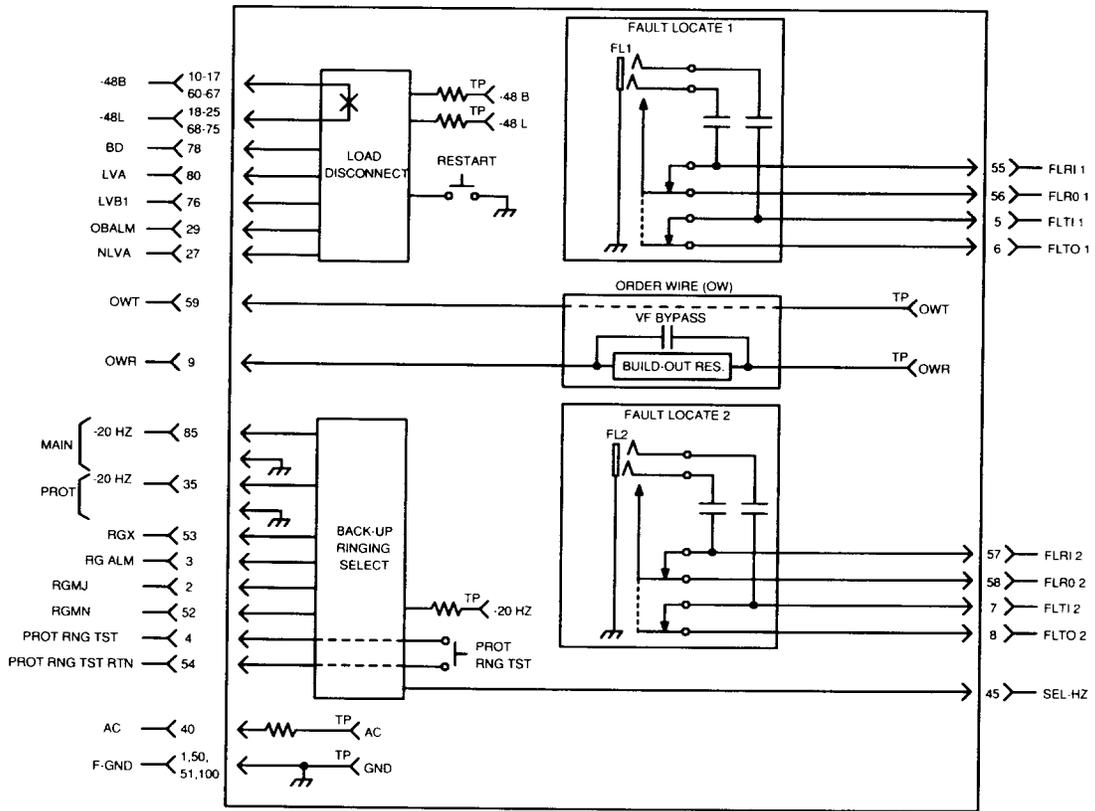


Figure 1. ED-7C613-30, G3 Block Diagram

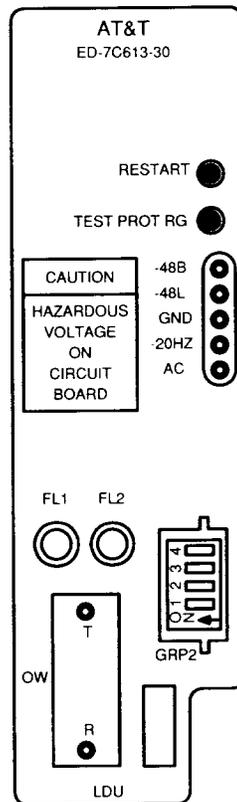


Figure 2. ED-7C613-30, G3 Faceplate

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

Additional copies of this document (AT&T 363-005-222) are available from the Customer Information Center — call 1-800-432-6600.

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