



SLC[®] Series 5 Carrier System

ED-7C710-30 Alarm Network Module — 5SPQAAS

Data Sheet

This data sheet describes the ED-7C710-30 alarm network module (ANM) (COMCODE 601329691) and is intended for the end-user of the unit. A condition of sticking alarm closures can occur on AUB3 alarm interface units (AIUs), which interface with telemetry systems. The ED-7C710-30 ANM is used to eliminate the condition, thereby allowing the continued use of the AUB3. The sticking alarm closures result in alarm indications remaining even after the condition that created the alarm is cleared. This condition can occur in central offices where there are long cable runs between multiple COT bays and the telemetry system, or when the telemetry system has a filter capacitance across its input. Alarm closures for the central office audible and visual alarms use a different type of relay closure and do not exhibit this same condition.

Figure 1 is a functional block diagram of the ED-7C710-30 ANM, and Figure 2 shows the outline of the ANM.

The ED-7C710-30 ANM is not required if only the major, minor, power minor, or near-end alarm pairs are connected to the remote telemetry system — the AUB3 relays used for these alarms can handle the surge currents associated with long lengths of cable. Alarms that may require the ED-7C710-30 ANM with the AUB3 AIU are the MISC1, MISC2, FE, INC, CLF, and DIGROUP A, B, C, D.

The ED-7C710-30 ANM should be used with the following conditions to limit the transient current flow when the AUB3 alarm contact closes:

- The total length of the cable between a *SLC*[®] Series 5 Carrier System bay and a telemetry system exceeds 1000 feet (including all cabling associated with multiple connections to other systems)
- Telemetry systems have filtering capacitance connected directly to the alarm input terminals.

The ED-7C710-30 ANM is a connectorized module that consists of twenty-four 0.25-watt 487-ohm resistors. These resistors are connected in series with each of the 24-alarm pairs in the Series 5 bay cable that connects to remote telemetry systems. Only one ED-7C710-30 ANM is required for each bay of up to six Series 5 dual banks. Specifically, the J119 bay cable connector located at the top of the Series 5 bay is disconnected from the P119 cable connector, which connects to remote telemetry systems, and the ED-7C710-30 ANM is inserted between the two connectors. See SD-7C116-02, CAD Figure 28.

Since the alarm pairs to telemetry systems are usually multiplied among many systems, the Series 5 system also provides IDX alarm pairs to identify which Series 5 system has an alarm. These IDX pairs are not generally multiplied among systems — therefore, the ED-7C710-30 ANM is not generally needed to limit the transient current when an IDX alarm relay operates. But if the IDX alarm pair length exceeds 1000 feet or the telemetry system to which these IDX pairs connect has a capacitor at the input, then the same ED-7C710-30 ANM should also be inserted in the Series 5 bay cable to limit the transient current. The IDX pairs pass through bay cable connector J118-P118 (see CAD 27 of SD-7C116-02).

An enhanced version of the AUB3, the AUB3B, uses relays that can withstand higher surge currents. The AUB3B also has a simpler option switch arrangement. The ED-7C710-30 ANM is compatible with both the AUB3 and the AUB3B, but it is not required with AUA3B.

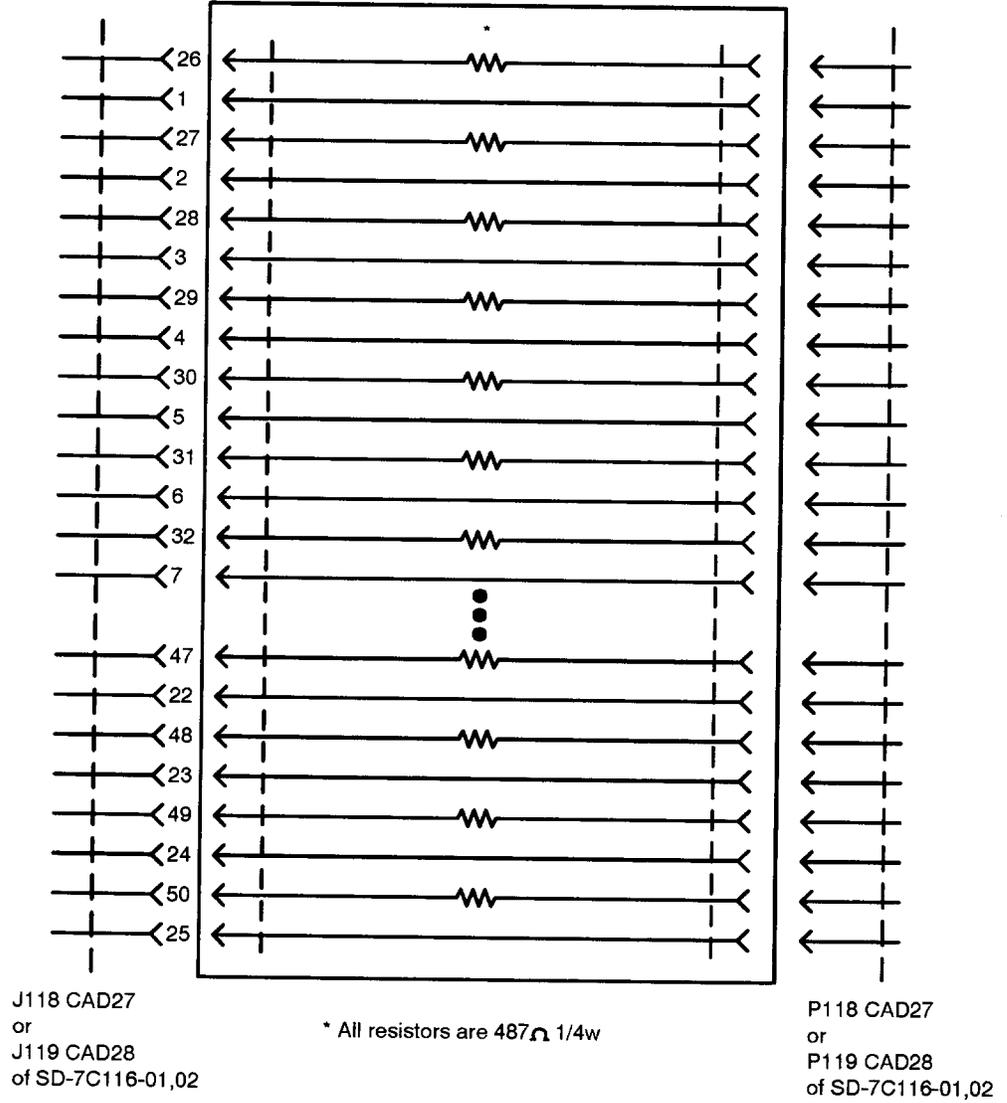


Figure 1. ED-7C710-30 ANM Block Diagram

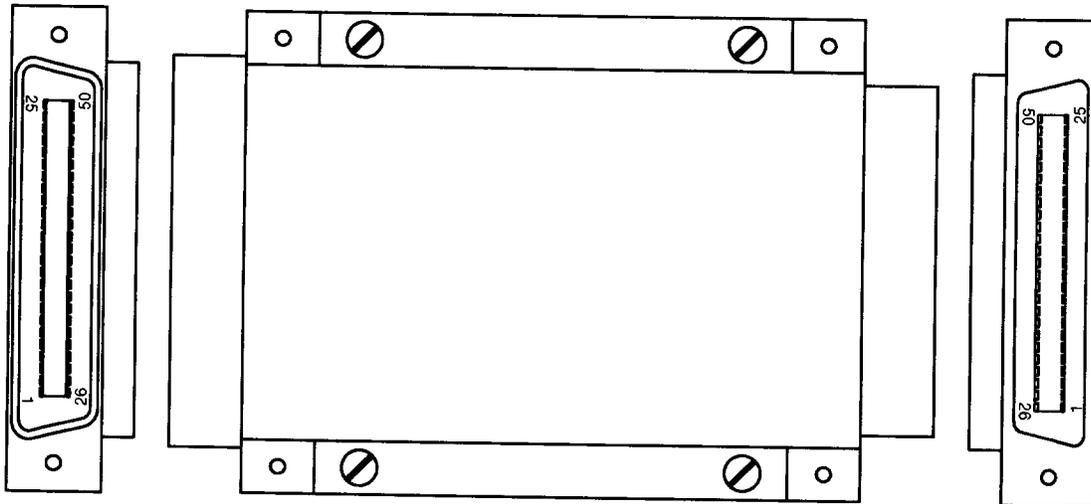


Figure 2. ED-7C710-30 ANM Outline

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**.

Additional copies of this document (AT&T 363-005-208) are available from the Customer Information Center — call 1-800-432-6600.

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