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## **SLC<sup>®</sup> LineReach<sup>™</sup> Access System**

### **890A Polling Adapter Module**

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#### **Features/Functions**

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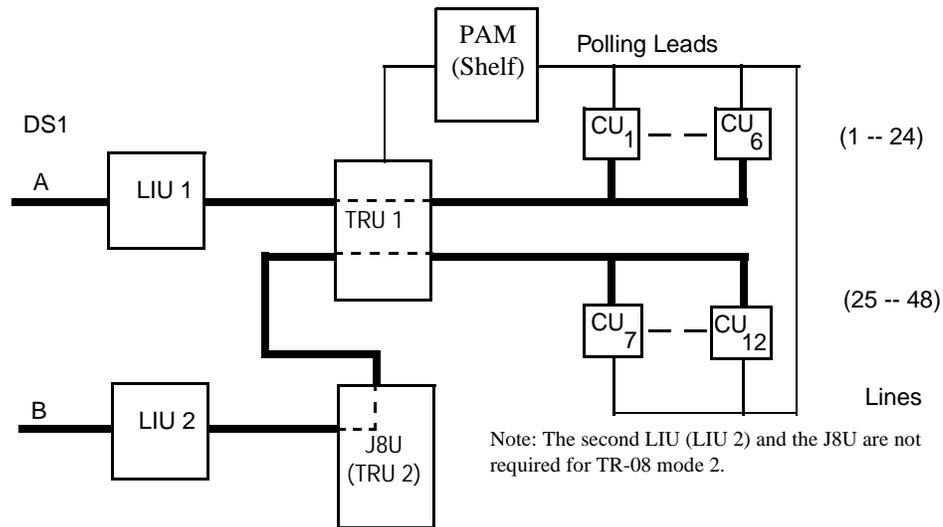
- Converts channel polling sequence to support both dual and quad channel units
- Conforms to appropriate industry standards

#### **Description**

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This data sheet describes the 890A polling adapter module (PAM) (COMCODE 108273152) and is intended for the end-user of the unit. The 890A PAM is intended for *SLC<sup>®</sup> LineReach<sup>™</sup> Access System* remote terminal (RT) applications. Figure 1 shows the transmission architecture of the *SLC LineReach Access System* for a typical TR-08 Mode 1 application.

The polling adapter module converts the channel polling from the transmit/receive unit (TRU) so that quad channel units, as well as dual channel units can be used in the *SLC LineReach Access System*. This polling signal conversion allows the correct timeslot-channel unit relationship to be maintained when using quad or dual channels units.



**Figure 1. 890A Polling Adapter Module for a Transmission Architecture of the SLC LineReach for a Typical TR-008 Mode 1 Application**

The PAM is part of the LineReach shelf backplane (i.e., the PAM will be already installed when the shelf cage is delivered to the customer) but is removable for repair maintenance by a single screw. Its height is the same as an AUA plug-in but its depth is considerably shorter than a normal AUA size card. It is installed on the left side of the first LIU slot, behind the faceplate of LIU-1. This is possible since the LIUs have double-wide faceplates but only single-wide circuitry.

Figure 1 shows the 890A polling adapter module for a transmission architecture for the SLC LineReach Access System for a typical TR-08 Mode 1 application. Figure 2 shows the side view diagram for the 890A polling adapter module. Table 1 lists the environmental specifications. Table 2 lists the power drain requirements, and Table 3 shows the edge connections for the 890A PAM.

## Specifications

This unit is intended for use in *SLC* LineReach Access Systems located in controlled environments that conform to the specifications of Bellcore GR-63\*. It may also be used in applicable Lucent Technologies cabinets designed for *SLC* LineReach and intended for applications in non-controlled (outside plant) environments that conform to Bellcore TA-NWT-000487†. These cabinets, when properly equipped, are designed to maintain internal environmental conditions within appropriate operational limits for *SLC* LineReach equipment such that system performance meets TR-NWT-000057‡.

The applicable outside plant environment criteria for cabinet enclosures (per TA-NWT-000487) are summarized in Table 1 Environmental Specifications.

**Table 1. Environmental Specifications**

<p><b>A. Temperature Range (Ambient)</b></p> <ol style="list-style-type: none"> <li>1. Operating, per TR-NWT-000057: in Lucent Technologies cabinet mounted RT, outside ambient temperatures of -40° F (-40° C) with no solar load to +115° F (46° C) with maximum solar load and maximum power dissipation. Lucent Technologies cabinets are designed to ensure that the components within do not exceed their rated temperatures for the above conditions.</li> <li>2. Storage, per TR-NWT-000057: ambient temperatures of -40° to 140° F (-40° to 60° C).</li> </ol>
<p><b>B. Relative Humidity</b></p> <ol style="list-style-type: none"> <li>1. Operating, per TR-NWT-000057. For outside ambient temperature 84° F (29° C) or less, relative humidity of 5% to 95%. For ambient temperatures above 84° F (29° C), the relative humidity is limited to that corresponding to a specific humidity of 0.024 pound of water per pound of dry air.</li> <li>2. Storage, per TR-NWT-000057: ambient temperatures 84° F (29° C) or less, 10% to 95%. For ambient temperatures above 84° F (29° C), the relative humidity is limited to that corresponding to a specific humidity of 0.024 pound of water per pound of dry air.</li> </ol>

\* Bellcore Generic Reference GR-63, Issue 1, October 1994, and all Revisions and Supplements, "Network Equipment-Building System Requirements: Physical Protection (a module of LSSGR, GR-64; TSGR, FR-440, and NEBS FR, FR-2063)," Bellcore.

† Bellcore Technical Advisory TA-NWT-000487, Issue 1, June 1993, and all Revisions and Supplements, "General Requirements for Electronic Equipment Cabinets," Bellcore.

‡ Bellcore Technical Reference TR-NWT-000057, Issue 2, January 1993, and all Revisions and Supplements, "Functional Criteria For Digital Loop Carrier Systems," Bellcore.

**Table 2. Power drain for 890A Polling Adapter module**

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<b>Supply</b>	<b>Maximum Value</b>
+5 Volts DC	282 mW

## **Installation and Testing**

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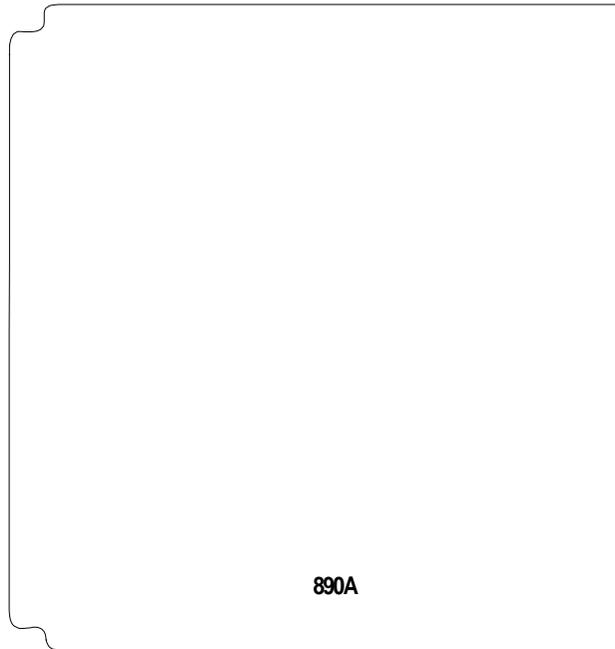
There are no switches to set on this unit.

The 890A PAM is installed directly into backplane slot J115 located to the left of LIU-1 slot and right of the BCU slot.

More detailed technical information is given in 363-208-400, *SLC LineReach Access System, Applications, Planning, and Ordering Guide* and in 363-208-401, *SLC LineReach Access System, User/Service Manual*.

## Circuit Board

The 890A polling adapter module side view diagram is shown in Figure 1.



**Figure 2. 890A Polling Adapter Module Side View Diagram**

**Table 3. Edge Connections For 890A Polling Adapter Module**

<b>Finger</b>	<b>Function</b>
1	Frame Ground
8, 33	Circuit Ground
25, 50	+5 Volts DC

## References

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The following documents provide additional information about the use of this unit in the SLC LineReach Access System:

363-208-400	<i>SLC LineReach Access System Applications, Planning, and Ordering Guide</i>
363-208-401	<i>SLC LineReach Access System User/Service Manual</i>

## Technical Assistance

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Follow local procedures for obtaining technical assistance. Lucent Technologies also provides in-hours or emergency out-of-hours help for the SLC LineReach Access System. Call the Lucent Technologies Regional Technical Assistance Center at 1-800-225-RTAC.

## Ordering Information

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Additional copies of this document (363-005-416) are available from the Customer Information Center — call 1-888-582-3688.

## Comments

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Comments about this document can be directed to:

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