SLC® LineReach™ Access System

AUA119 Jumper Unit (J8U)—5SCBTM0

Features/Functions

- Routes transmission and timing signals between LIU 2, via TRU slot 2 and TRU 1 in the *SLC* LineReach shelf

Description

This data sheet describes the AUA119 jumper unit (J8U) (COMCODE 108273145) and is intended for the end-user of the unit.

The AUA119 jumper unit is used in the *SLC*® LineReach™ Access System remote terminal (RT). Figure 1 shows the transmission architecture of the *SLC* LineReach Access System for the TR-08 Mode 1 application. The LIU converts the incoming feeder signal into a 4.096-Mbps bus format (32 16-bit timeslots) and transports the data to the TRU. The TRU has two 4.096-Mbps channel buses connecting to the channel units (CUs). Six CUs share a channel bus, and the TRU polls the CUs for data transmission.

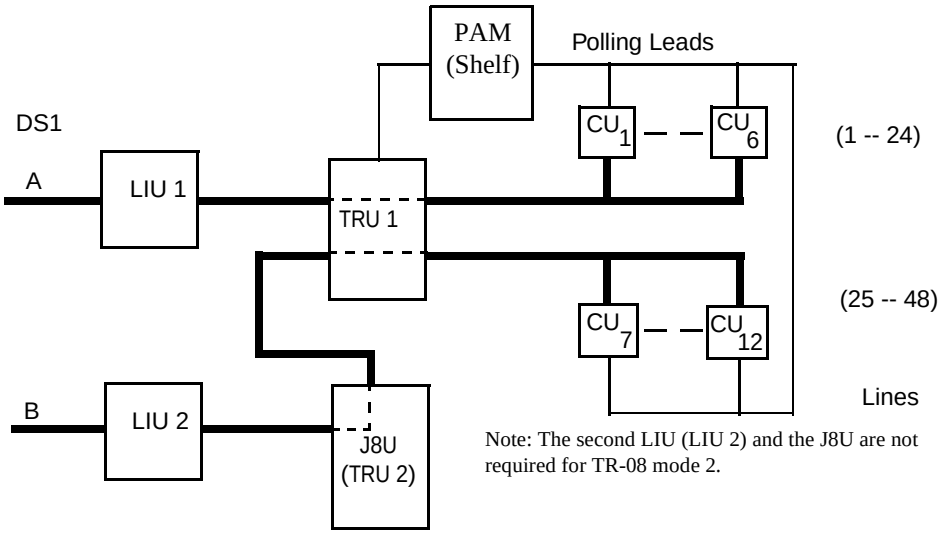

Figure 1. AUA119 Jumper Card Transmission Architecture for *SLC* LineReach TR-08 Mode 1 Application

The *SLC* LineReach Access System has been designed to support a FPC, TR-08 Mode 1, or a TR-08 Mode 2 switch interface. One TRU is needed to support TR-08 Mode 1 and FPC applications. A jumper unit (J8U) is installed in TRU slot 2, instead of a second TRU for TR-08 mode 1 48-line application. The J8U routes the signals (both transmission and timing signals) between the LIU in LIU slot 2 and the TRU in TRU slot 1 via pins in the TRU slot 2. An AUA119 Jumper unit is needed when:

- TR-08 Mode 1 48-line application.
- Universal *SLC* Series 5 FPC COT.

An AUA119 Jumper unit is not needed when:

- The RT is being set up for TR-08 Mode 1 in a 24-line application (CU slots 1-6 supported) the second LIU (LIU 2) and the J8U are not required.
- The 48-line TR-08 Mode 2 version of LineReach does not use the second LIU (LIU-2) or the J8U; these packs are not equipped in that application.

Figure 1 shows the AUA119 jumper card transmission architecture for *SLC* LineReach TR-08 Mode 1 application. Figure 2 shows the faceplate diagram for the AUA119 RT jumper unit. Table 1 lists the environmental specifications, and Table 2 lists the edge connections for the AUA119 jumper unit.

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

A. Temperature Range (Ambient) 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 assure that the components within do not exceed their rated temperatures for the above conditions. 2. Storage, per TR-NWT-000057: ambient temperatures of -40° to 140° F (-40° to 60° C).
B. Relative Humidity 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. 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.

* 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.

Faceplate Features

The AUA119 jumper unit faceplate is shown in Figure 2.

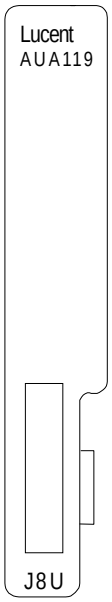

Figure 2. AUA119 Jumper unit J8U Faceplate Diagram

Table 2. Edge Connections For AUA119 Jumper Unit

Finger	Function
1	Frame Ground
5, 10	Circuit Ground
29	4 kHz signal
46	4 MHz signal

References

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

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

Technical Assistance

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

Additional copies of this document (363-005-412) are available from the Customer Information Center — call 1-888-582-3688.

Comments

Comments about this document can be directed to:

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