

UDS-132

LIF701

Unit Data Sheet

PART NUMBER/ MNEMONIC	NAME	STATUS
3AL 00328 AA/ LIF701	Single STS1/DS3 Input/Output Low Speed Interface Plug-in Unit	Active

FEATURES AND APPLICATION NOTES

- Requires 1603 SM R06.00 or later system software.
- Provides one STS1 or DS3 low speed interface between VT/STS1 cross-connect (VSCC) plug-in unit and the Line Driver/Receiver (LDR) plug-in units.
- The LIF701 has the same performance specifications as the LIF501, except it only provides one interface and does not require as much power.
- The LIF701 provides enhanced DS3 performance monitoring capabilities.
- Performs STS1 pointer processing for STS1 payloads.
- Extracts and inserts the Section and Data Communications Channel (DCC).
- Performs performance monitoring for STS1 low speed interface.
- Front panel mounted Light Emitting Diodes (LEDs) indicate plug-in unit status (fail or active).
- Can work in conjunction with any of the VT/STS cross-connect plug-in units (VSCC101, VSCC20x, VSCC30x, or VSCC501) and any of the following LDRs: LDR101, LDR201, or LDR301.

NOTE: STS1 grooming with the VSCC101 cross-connect; VT grooming requires the VSCC30x or VSCC501 cross-connect.

DESCRIPTION

The LIF701 provides one DS3 or STS1 low speed interface between the VT/STS1 cross-connect (VSCC) plug-in unit and the Line Driver/Receiver (LDR) plug-in unit. The input/output circuit on the LIF701 can be provisioned as either DS3 or STS1.

The LIF701 plugs into the same shelf location that the DMI plug-in unit uses. The LIF701 can be used with either OC3, OC12, or OC48 line group configurations. Depending on the provisioning, the LIF701 can be used with an LDR201 (STSX-1) unit or an LDR301 (DSX-3) unit or an LDR101 (STSX-1 or DSX-3) unit.

The LDR units connect the LIF701 circuits to the CIOP101 panel that provides the external facility connections. The CIOP101 mounts on the rear of the shelf assembly. Figure [1](#) shows the traffic path from the high speed (HIF) interface through the VSCC30x or VSCC501 cross-connect unit and the LIF701 unit to the LDR unit which is connected to the shelf's

CIOP101 panel.

NOTE: External connections to the CIOP101 should be made using 728A, 734A, or 735A coaxial cable. The length of the cable should be per the distances in Table A.

Figure 1. Traffic Flow to/from LIF701

Table A. CIOP External Connections

CABLE TYPE	CROSS-CONNECT POINT	LINE BUILDOUT (LBO) SETTINGS
728A or equivalent	450 feet	0-225 feet (IN) 226-450 feet (OUT)
734A or equivalent	400 feet	0-200 feet (IN) 201-400 feet (OUT)
735A or equivalent	220 feet	0-110 feet (IN) 111-220 feet (OUT)

Figure 2 is a face view and side view of the LIF701 unit. Figure 3 is the block diagram of the LIF701.

Figure 2. LIF701 Plug-in Unit

Figure 3. LIF701 Block Diagram