

Tellabs® 1000 Multi-Service Access Series Expansion Link Unit (ELU-3)

Overview

The Expansion Link Unit 3 (ELU-3) plug-in card provides the system connection from the primary shelf to each expansion shelf in a Tellabs® 1000 Multi-Service Access Series terminal. The ELU-3 provides a dedicated broadband communication link to the expansion shelf via a fiber-optic connection to an EBC-3 card.

The ELU-3 card manages communication between the primary and secondary shelf, transmitting system commands from the CPU-3 and relaying information to and from the EBC-3 card. The ELU-3 provides both ATM and TDM transmission between the primary CBA back-plane and the expansion shelf.

Expansion bank fibers (EBFs) carry TDM and ATM data on separate multimode plastic fiber pairs that terminate directly to the ELU-3 and EBC-3 cards. The EBF fiber connection carrying ATM traffic between the ELU-3 and the EBC-3 operates at 155 Mbps to ensure full, non-blocking access to the transmission facility for all plug-in cards used in the expansion shelf.

The ELU-3 card resides in any general purpose slot in the primary shelf. Use two ELU-3 cards to provide each expansion shelf a link for optional redundancy. The primary shelf can support up to seven broadband expansion shelves (served from up to 14 redundant ELU-3 card pairs).

Features and Benefits

- Enables simple system expansion
- Supports transport of traffic from the ATM and TDM buses
- Microprocessor controlled
- Communications gateway between the CPU-3 and the expansion shelves
- Non-blocking inter-shelf connection
- Dual memory support for non-service affecting programming
- Ability to recover timing reference from the expansion shelf and provide it to the primary shelf
- Provides composite clock P-Bits and N-Bits to the expansion shelf for DDS timing in the expansion shelf

Specifications

Interface

- Transmission rate: 155 Mbps (ATM)+ 49.125 Mbps (TDM)
- Transmitter: LED
- Receiver: PIN Photodiode
- Coding: NRZI
- Fiber type: Multimode plastic (two fiber pairs)
- Connector type: HP "Versa-Link"

Environmental

- Operating temperature: -40° to +65° C (-40 to +149° F)
- Humidity: 5–95% relative humidity (non-condensing)
- Maximum power consumption: 5.45 W
- Typical power consumption: 5.0 W



Dimensions

- Height: 5.125 in (13.018 cm)
- Width: 0.563 in (1.429 cm)
- Depth: 10.5 in (26.67 cm)
- Weight: 0.5 lb (0.23 kg)

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