tellabs®

Tellabs® 1000 Multi-Service Access Series Expansion Bank Control Unit (EBC-3)

Overview

The Expansion Bank Control 3 (EBC-3) plug-in card provides the microprocessor-based control for each broadband-ready expansion shelf (CBA) in an Tellabs® 1000 Multi-Service Access Series terminal. The EBC-3 card resides in the CPU slot(s) in the expansion shelf, providing the interface to the system for all cards in the expansion shelf.

The EBC-3 card manages the expansion shelf's ATM and TDM back-planes, distributes system commands, and monitors the performance of each installed card. Use two EBC-3 cards in the expansion shelf for redundancy.

The EBC-3 accesses the ATM cell bus on the expansion shelf backplane to enable broadband services. An expansion shelf is considered broadband-ready when it houses an EBC-3 card connected to an ELU-3 card located in the primary shelf. The EBC-3 and ELU-3 cards link via a fiber-optic connection.

The expansion bank fibers (EBFs) transport the TDM and ATM data on separate multimode plastic fiber pairs that terminate directly to the EBC-3 and ELU-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 regardless of the plug-in card types used in the expansion shelf.

Features and Benefits

- Enables simple system expansion
- Supports transport of traffic ATM and TDM
- Interfaces to an ELU-3 plug-in card in a primary shelf
- Shelf control for expansion shelves
- Generates status updates to the CPU via the ELU plug-in card
- CRC protection on the expansion link
- Dual memory support for Tellabs® ServiceAssured™ programming
- Ability to derive timing reference from expansion shelf and transport it to primary shelf via the ELU plug-in card
- Receives DDS timing from the primary shelf
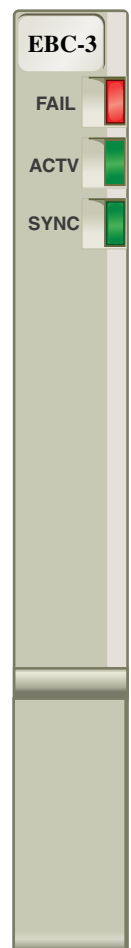
Specifications

Interface
- Transmission rate: 155 Mbps (ATM) + 49.125 Mbps (TDM)
- Transmitter: LED
- Receiver: PIN Photodiode
- Coding: NRZI
- Fiber type: Multimode plastic
- 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)

EBC-3

FAIL

ACTV

SYNC

Compliance
- Jitter tolerance:
  T-1/E-1 1.2/88-OMR, ANSI
- Office composite clock:
  TA-TSY-000378 Telcordia (Bellcore)
- Synchronization:
  TA-NPL-000436 Telcordia (Bellcore)

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