

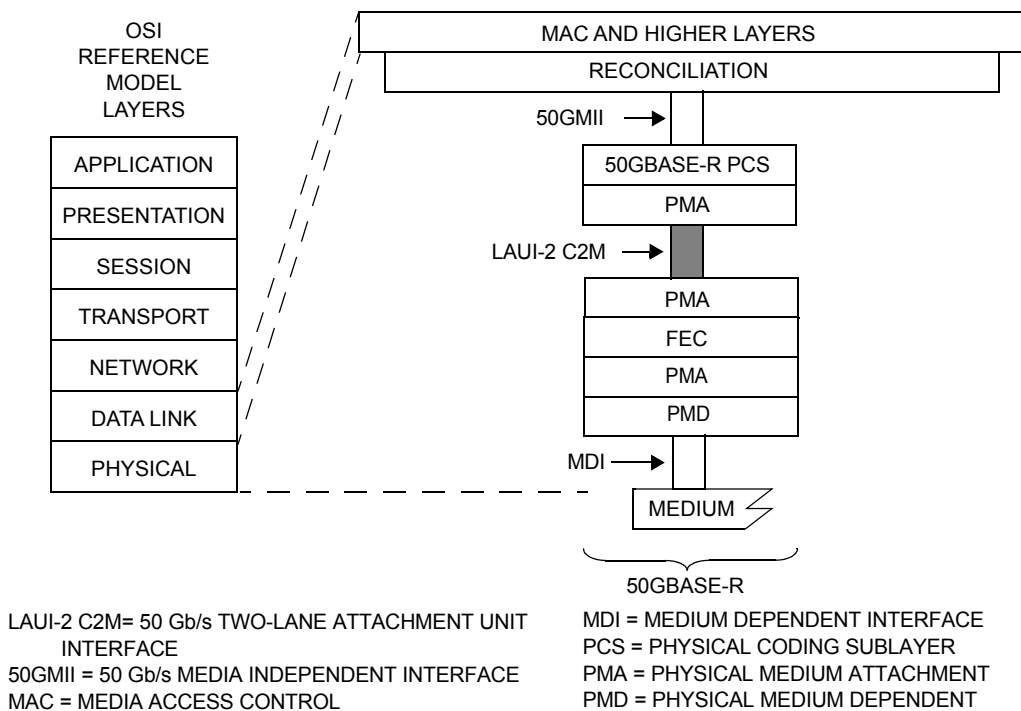
# Annex 135C

(normative)

## Chip-to-module 50 Gb/s 2-lane Attachment Unit Interface (LAUI-2 C2M)

### 135C.1 Overview

This annex defines the functional and electrical characteristics for the optional chip-to-module 50 Gb/s two-lane Attachment Unit Interface (LAUI-2 C2M). LAUI-2 C2M is a physical instantiation of the PMA service interface between the PCS and the FEC. Figure 135C-1 shows the relationship of the LAUI-2 C2M interface to the ISO/IEC Open System Interconnection (OSI) reference model. The C2M interface provides electrical characteristics and associated compliance points, which can optionally be used when designing systems with pluggable module interfaces.



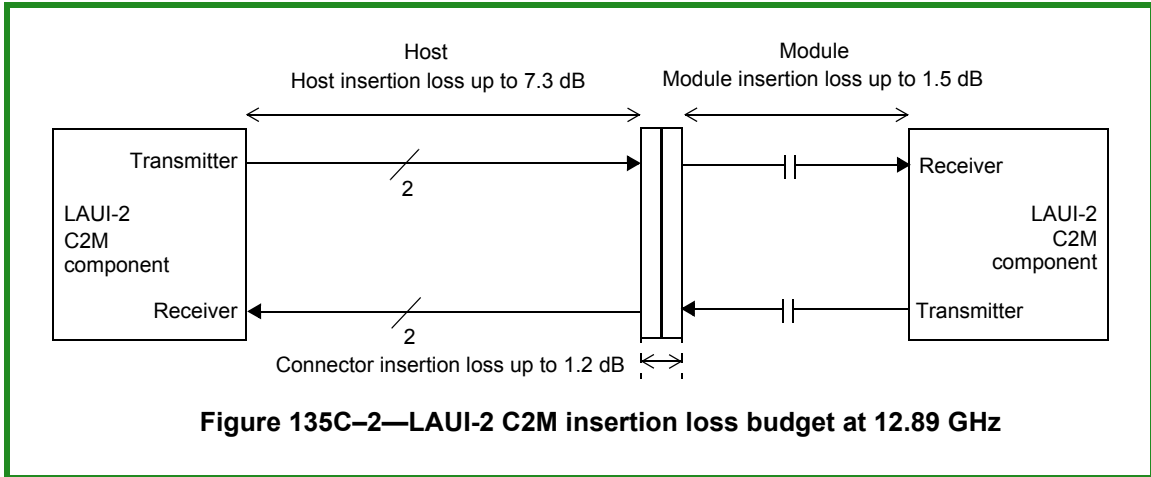
**Figure 135C-1—Example LAUI-2 C2M relationship to the ISO/IEC Open System Interconnection (OSI) reference model and the IEEE 802.3 Ethernet model**

~~LAUI-2 C2M is a physical instantiation of the PMA service interface between the PCS and the FEC.~~

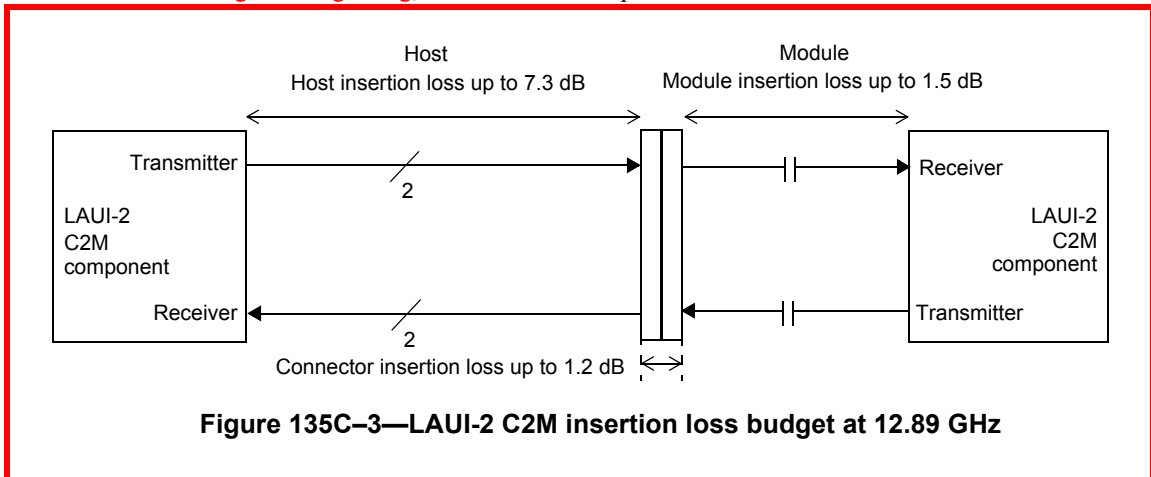
The LAUI-2 C2M link is described in terms of a host LAUI-2 C2M component, a LAUI-2 C2M channel with associated insertion loss, and a module LAUI-2 C2M component. Figure 135C-3 depicts a typical LAUI-2 C2M application and summarizes the differential insertion loss budget associated with the C2M

Comment #121: Proposed changes to LAUI-2 C2M (similar changes to be applied to all C2M annexes)

application. The supported insertion loss budget is characterized by Equation (83E-1) and illustrated in Figure 83E-3.-



The LAUI-2 C2M interface comprises independent data paths in each direction. Each data path contains two differential lanes using NRZ signaling, which are AC-coupled within the module.



LAUI-2 C2M uses NRZ signaling. The nominal signaling rate for each lane is 25.78125 GBd.-

The LAUI-2 C2M interface is defined using a specification and test methodology that is similar to that used for CEI-28G-VSR defined in OIF-CEI-03.1 [B55].

### 135C.1.1 Bit error ratio

The bit error ratio (BER) shall be less than  $10^{-15}$  with any errors sufficiently uncorrelated to ensure an acceptably high mean time to false packet acceptance (MTTFPA) assuming 64B/66B coding.

### 135C.2 LAUI-2 C2M compliance point definitions

The compliance points for the LAUI-2 C2M interfaces are as defined for two CAUI-4 lanes in 83E.2.