

Interpretation Number: 02-11/04
Topic: Transmitter electrical specifications
Relevant Clause: 39.3.1
Classification: Question 1 - Unclear
Question 2 - Unaddressed

Interpretation Request

Can you please help us on the following 802.3 interpretation requests?

(1) Section 39.3.1 of the IEEE Std 802.3, 2002 edition.

In table 39-2, Transmitter output type is (P)ECL. However, output driver is ac-coupled. Is it required by standard that transmitter DC common-mode voltage needs to meet (P)ECL?

(2) Section 39.3.1 of the IEEE Std 802.3, 2002 edition.

In Figure 39-2, is there any requirement on transmitter impedance or Transmitter return loss @ TP2?

Interpretation for IEEE Std 802.3-2002

Question (1):

The standard is unclear on this issue, and no distinction can be made between alternative implementations. This is being referred to the sponsor for possible action at the next revision.

Question (2):

The standard does not speak to these issues, and as such no distinction can be made between alternative implementations. This is being referred to the sponsor for possible action at the next revision.