TDECQ: main tap constraints

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Proposed text change for 139

Change from

139.7.5.4 TDECQ reference equalizer

The reference equalizer for 50GBASE-FR and 50GBASE-LR is a 5 tap, T spaced, feed-forward equalizer (FFE), where T is the symbol period. The sum of the equalizer tap coefficients is equal to 1.

To

139.7.5.4 TDECQ reference equalizer

The reference equalizer for 50GBASE-FR and 50GBASE-LR is a 5 tap, T spaced, feed-forward equalizer (FFE), where T is the symbol period. A functional model of the reference equalizer is shown in Figure 121–7. The sum of the equalizer tap coefficients is equal to 1. The largest magnitude tap coefficient shall be for tap 1, tap 2, or tap 3.

Add Figure 139-5 as shown next slide

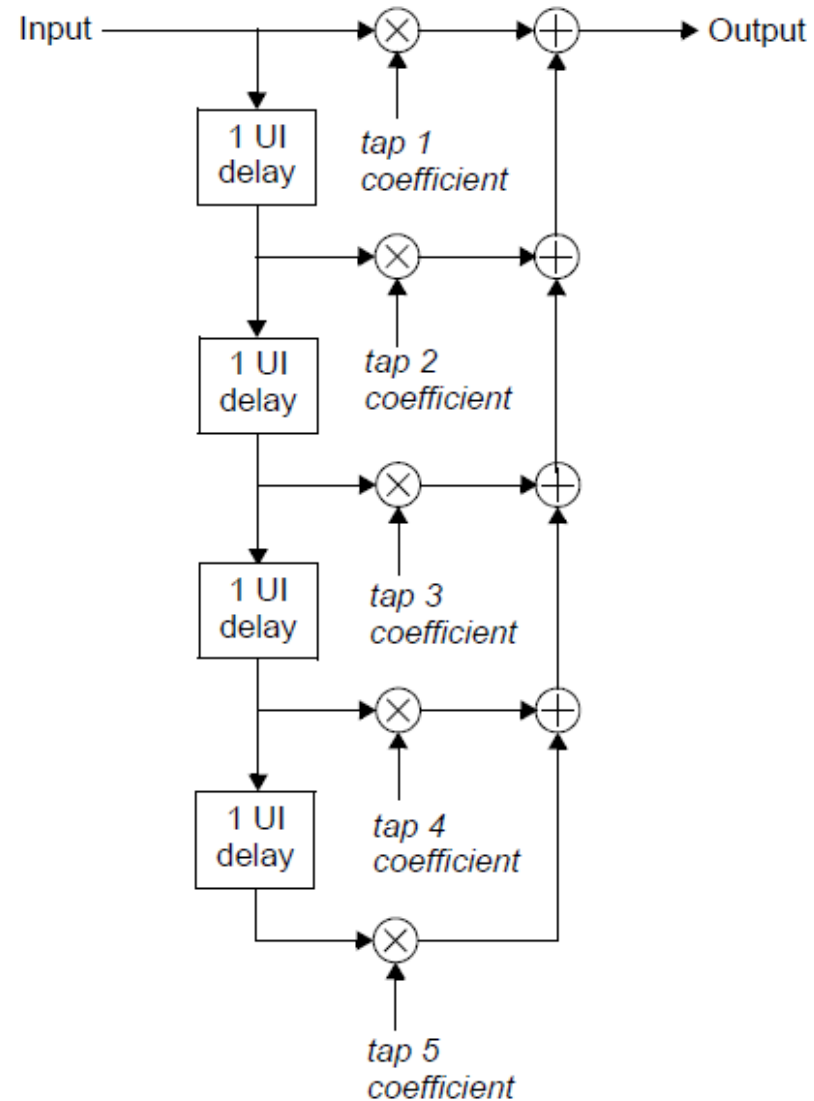# TDECQ reference equalizer diagram to be added

Figure 139–5—TDECQ reference equalizer functional model

Other clauses in cd

- Make similar changes for 138.8.5.1

- For 140, change

"140.7.5 Transmitter and dispersion eye closure for PAM4 (TDECQ)

The TDECQ shall be within the limits given in Table 140–6 if measured using the methods specified in 121.8.5.1, 121.8.5.2, and 121.8.5.3 using a reference equalizer as described in 121.8.5.4, with the following exceptions:"

To

"**140.7.5 Transmitter and dispersion eye closure for PAM4 (TDECQ)** The TDECQ shall be within the limits given in Table 140–6 if measured using the methods specified in 121.8.5.1, 121.8.5.2, and 121.8.5.3 using a reference equalizer as described in 140.7.5.1, with the following exceptions:"

And add subclause 140.7.5.1 after 140.7.5:

"140.7.5.1 TDECQ reference equalizer

The reference equalizer for 100GBASE-DR is a 5 tap, T spaced, feed-forward equalizer (FFE), where T is the symbol period. A functional model of the reference equalizer is shown in Figure 140–4. The sum of the equalizer tap coefficients is equal to 1. The largest magnitude tap coefficient shall be for tap 1, tap 2, or tap 3."

Add Figure 140-4 –TDECQ reference equalizer functional model, similar to Figure 139-5

- Add appropriate PICS for each clause