D3.1 Comment R1-11

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45.2.1.196 MultiGBASE-T1 test mode control register (1.2313)

Table 45–155e—MultiGBASE-T1 test mode control register bit definitions

Bit(s)	Name	Description	R/W[a]
1.2313.15:13	Test mode control	15 14 13 1 1 1 = Test mode 7 1 1 0 = Test mode 6 1 0 1 = Test mode 5 1 0 0 = Test mode 4 0 1 1 = Test mode 3 0 1 0 = Test mode 2 0 0 1 = Test mode 1 0 0 0 = Normal (non-test) operation	R/W
1.2313.12	Reserved	Value always 0	RO
1.2313.11	Local transmitter precoder over-ride	0 = Normal operation 1 = User override	R/W
1.2313.10:9	Local transmit precoder setting	00 = transmit with no precoder 01 = transmit with 1–D precoder 10 = transmit with 1+D precoder 11 = transmit with $1-D^2$ precoder	R/W
1.2313.8:2	Reserved	Value always 0	RO
1.2313.1:0	Jitter test control	1 0 0 0 = Square wave 0 1 = JP03A Pattern 1 0 = JP03B Pattern 1 1 = Reserved	R/W

Sublause 45.2.1.196.2

Subclause 45.2.1.196.3

[a]RO = Read only, R/W = Read/Write

Conflicting Requirements?

45.2.1.196.2 Local transmitter precoder override (1.2313.11)

When bit 1.2313.11 is set to one, the local transmitter's precoder shall be controlled by the value of bits 1.2313.10:9, and the precoder requested by the link partner in PrecodeSel shall be ignored. When bit 1.2313.11 is set to zero, the transmitter shall ignore bits 1.2313.10:9, and the precoder is set according to the value of PrecodeSel received from the link partner as specified in 149.3.2.2.20. The default value of 1.2313.11 is zero.

➔ *This implies 1.2313.11 may be set to 1, even in normal operation.*

45.2.1.196.3 Local transmit precoder setting (1.2313.10:9)

When bit 1.2313.11 is set to one, bits 1.2313.10:9 control the precoder setting of the local transmitter, as defined in 149.3.2.2.20 in the variable precoder_type. For testing purposes, the precoder can be set using these bits, and the specified test can be carried out by using these bits, bit 1.2313.11, and enabling test mode 3. During normal operation, bit 1.2313.11 is set to zero, and the precoder is set according to the value of PrecodeSel received from the link partner, and bits 1.2313.10:9 are ignored.

➔ *Does this imply 1.2313.11 must be set to 0 in normal operation?*

Recommended Changes

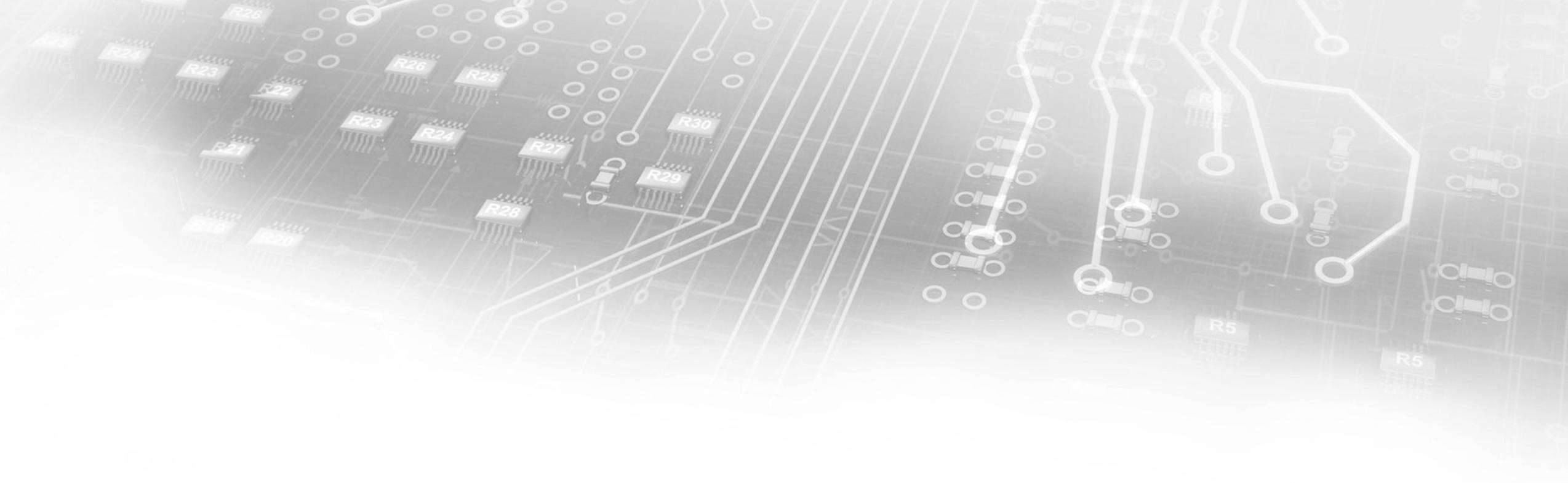45.2.1.196.2 Local transmitter precoder override (1.2313.11)

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45.2.1.196.3 Local transmit precoder setting (1.2313.10:9)

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Other Options

- Option 2: Ignore bit 1.2313.11 and 1.2313.10:9 in normal operation (data mode)
  - These bits are defined in the "test mode" control register anyway.

- Option 3: keep the current texts

THANK YOU