Proposed baseline text

Ragnar Jonsson – Marvell and Ahmad Chini – Broadcom

200.11 Link segment characteristics, T1

2.5G+100MBASE-T1, 5G+100MBASE-T1, and 10G+100MBASE-T1 are designed to operate over a single shielded balanced pair of conductors that meet the requirements specified in this sub clause. The single shielded balanced pair of conductors supports an effective data rate of 2.5 Gb/s, 5 Gb/s, and 10 Gb/s in one direction and simultaneously 100Mb/s in the other direction. The term link segment used in this clause refers to a single balanced pair of conductors (cable or backplane). Full duplex operation at the logical interface of XMII is supported.

200.11.1 Link transmission

Parameters The transmission characteristics for the MultiG+100MBASE-T1 link segment are specified to support operation over automotive temperature and electromagnetic conditions.

200.11.1.2 Differential characteristic impedance

The nominal differential characteristic impedance of the link segment is 100 Ohm.

200.11.1.4 Coupling attenuation

The coupling attenuation of each MultiG+100MBASE-T1 link shall be as specified in 149.7.1.4.

200.11.1.5 Screening attenuation

The screening attenuation of each MultiG+100MBASE-T1 link shall be as specified in 149.7.1.5.

200.11 Link segment characteristics, T1

2.5G+100MBASE-T1, 5G+100MBASE-T1, and 10G+100MBASE-T1 are designed to operate over a single shielded balanced pair of conductors that meet the requirements specified in this sub clause. The single shielded balanced pair of conductors supports an effective data rate of 2.5 Gb/s, 5 Gb/s, and 10 Gb/s in one direction and simultaneously 100Mb/s in the other direction. The term link segment used in this clause refers to a single balanced pair of conductors (cable or backplane). Full duplex operation at the logical interface of XMII is supported.

200.11.1 Link transmission

Parameters The transmission characteristics for the MultiG+100MBASE-T1 link segment are specified to support operation over automotive temperature and electromagnetic conditions.

200.11.1.2 Differential characteristic impedance

The nominal differential characteristic impedance of the link segment is 100 Ohm.

200.11.1.4 Coupling attenuation

The coupling attenuation of each MultiG+100MBASE-T1 link shall be as specified in 149.7.1.4.

200.11.1.5 Screening attenuation

The screening attenuation of each MultiG+100MBASE-T1 link shall be as specified in 149.7.1.5.

200.12 Link segment characteristics, V1

2.5G+100MBASE-V1, 5G+100MBASE-V1, and 10G+100MBASE-V1 are designed to operate over a single coaxial cable that meet the requirements specified in this subclause. The single coaxial cable supports an effective data rate of 2.5 Gb/s, 5 Gb/s, and 10 Gb/s in one direction and 100Mb/s in the other direction. The term link segment used in this clause refers to a coaxial cable. Full duplex operation at the logical interface of XMII is supported.

200.12.1 Link transmission parameters

The transmission characteristics for the MultiG+100MBASE-V1 link segment are specified to support operation over automotive temperature and electromagnetic conditions.

200.12.1.2 Single ended characteristic impedance

The nominal characteristic impedance of the link segment is 50 Ohm.

200.13 MDI specification, T1

200.13.1 MDI connectors

The MDI connectors are as specified in 149.8.1.

200.15 Environmental specifications

The environmental specifications for MultiG+100M/100M+MultiGBASE-T1/V1 are as specified in 149.9.

200.15.1 General safety

The general safety specifications for MultiG+100M/100M+MultiGBASE-T1/V1 are as specified in 149.9.1.

200.15.2 Network safety

The network safety specifications for MultiG+100M/100M+MultiGBASE-T1/V1 are as specified in 149.9.2.

200.15.2.1 Environmental safety

The environmental safety specifications for MultiG+100M/100M+MultiGBASE-T1/V1 are as specified in 149.9.2.1.

200.15.2.2 Electromagnetic compatibility

The electromagnetic compatibility safety specifications for MultiG+100M/100M+MultiGBASE-T1/V1 are as specified in 149.9.2.2.

Motion

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S: Ahmad Chini