ITU-T

TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU

G.987.2 Amendment 1 (02/2012)

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Digital sections and digital line system – Optical line systems for local and access networks

10-Gigabit-capable passive optical networks (XG-PON): Physical media dependent (PMD) layer specification

Amendment 1

Recommendation ITU-T G.987.2 (2010) – Amendment 1



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For further details, please refer to the list of ITU-T Recommendations.

Recommendation ITU-T G.987.2

10-Gigabit-capable passive optical networks (XG-PON): Physical media dependent (PMD) layer specification

Amendment 1

Summary

Amendment 1 to Recommendation ITU-T G.987.2 (2010) includes new values for the X/S parameters and a new note on optical power penalty.

History

Edition	Recommendation	Approval	Study Group
1.0	ITU-T G.987.2	2010-01-13	15
2.0	ITU-T G.987.2	2010-10-07	15
2.1	ITU-T G.987.2 (2010) Amd. 1	2012-02-13	15

FOREWORD

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

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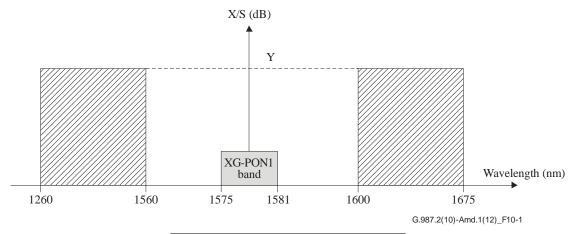
Recommendation ITU-T G.987.2

10-Gigabit-capable passive optical networks (XG-PON): Physical media dependent (PMD) layer specification

Amendment 1

1) Clause 10.1 Versatile WDM configuration

a) Replace Figure 10-1 with the following:



Class	Y (dB)
N1, E1, N2a, E2a	21.5
N2b, E2b	15

S: Received power of basic band.

X/S: In the mask (hatching area) should not cause the XG-PON receiver to fail to meet its sensitivity requirements.

Figure 10-1 – X/S tolerance mask for ONU

2) Table 9-3 – Optical interface parameters of 9.95328 Gbit/s downstream direction

a) Replace Note 6 of Table 9-3 with the following:

NOTE 6 – The specified penalty must be met by optics complying with the specified launch power range. If a transmitter exhibits a higher penalty, it can still comply if it equally increases the minimum launch power while remaining under the maximum launch power. In no case should the OPP exceed 2 dB.

X: Maximum total power of additional services received in the blocking wavelength range.

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