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ITU-T G.984.3 (03/2008)

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Gigabit-capable Passive Optical Networks (G-PON): Transmission convergence layer specification 

Recommendation ITU-T G.984.3 describes the transmission convergence layer for gigabit-capable passive optical networks - a family of flexible access networks capable of providing a range of broadband and narrow-band services, operating at the rates of 2.48832 Gbit/s downstream, and 1.24416 or 2.48832 Gbit/s upstream. This Recommendation includes the specifications of the following:

- gigabit PON transmission convergence (GTC) layer framing;
- upstream time division multiple access mechanism;
- physical layer OAM messaging channel;
- principles and signalling mechanism of the upstream dynamic bandwidth assignment;
- ONU activation method;
- forward error correction;
- security.

This Recommendation forms an integral part of the G.984-series of ITU-T Recommendations that, together, specify a single coherent set of access transmission systems. The original version of Recommendation ITU-T G.984.3 was approved on 22 February 2004. It was subsequently expanded and complemented by Amendment 1 (07/2005), Amendment 2 (03/2006), Amendment 3 (12/2006) as well as the Implementers' Guide (06/2006). This version of Recommendation ITU-T G.984.3 integrates all the earlier documents listed in the previous paragraph, providing necessary corrections and clarifications, and contains the new results of the standardization work performed by ITU-T Study Group 15 during the 2005-2008 study period.

Citation:	https://handle.itu.int/11.1002/1000/9381
Series title:	G series: Transmission systems and media, digital systems and networks G.900-G.999: Digital sections and digital line system G.980-G.989: Optical line systems for local and access networks
Approval date:	2008-03-29
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Approval process:	AAP
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Further details:	Patent statement(s) Development history

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Ed.	ITU-T Recommendation	Status	Summary	Table of Contents
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3.1	G.984.3 (2014) Amd. 1 (03/2020)	In force	here	here	here
3	G.984.3 (01/2014)	In force	here	here	here
2.3	G.984.3 (2008) Amd. 3 (04/2012)	Superseded	here	here	here
2.2	G.984.3 (2008) Amd. 2 (11/2009)	Superseded	here	here	here
2.1	G.984.3 (2008) Amd. 1 (02/2009)	Superseded	here	here	here
2	G.984.3 (03/2008)	Superseded	here	here	here
2.0	G.984.3 (2008) Err. 1 (04/2010)	Superseded	-	-	here
1.3	G.984.3 (2004) Amd. 3 (12/2006)	Superseded	here	here	here
1.2	G.984.3 (2004) Amd. 2 (03/2006)	Superseded	here	here	here
1.1	G.984.3 (2004) Amd. 1 (07/2005)	Superseded	here	here	here
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