75.6 Dual–rate (coexistence) mode

To support coexistence of 10G–EPON and 1G–EPON ONUs on the same outside plant, the OLT may be configured to use a dual–rate mode. Dual–rate mode supports transmission ~~and~~or reception of both 10 Gb/s and 1 Gb/s data rates, and can be introduced as ~~an~~ options for 10G-EPON OLTs, functionally combining PMDs ~~of~~ 10Gb/s and 1Gb/s data rates.
~~BASE–PR–D or 10/1GBASE–PRX–D PMDs.~~

Table 75–12 depicts PMD coexistence mapping for dual–rate mode options.

Table 75–12—PMD coexistence mapping for dual–rate mode option[a]

Dual-rate operation	OLT PMD combination	ONU PMDs coexisting on the same ODN
Downstream	1000BASE–PX–D~~+~~ 10/1GBASE–PRX–D	(1) 1000BASE–PX–U (2) 10/1GBASE–PRX–U
Upstream	10GBASE–PR–D~~+~~ 10/1GBASE–PRX–D	(1) 10GBASE–PR–U (2) 10/1GBASE–PRX–U
Downstream Upstream	1000BASE–PX–D~~+~~ 10GBASE–PR–D	(1) 1000BASE–PX–U (2) 10/1GBASE–PRX–U (3) 10GBASE–PR–U

aNote: Only PMDs with compatible power budgets can be connected to the same ODN.

75.6.1 Downstream dual–rate operation

When the downstream dual–rate operation is enabled, the OLT transmits both 10 Gb/s and 1 Gb/s downstream signals in WDM manner. The OLT should meet both 10 Gb/s and 1 Gb/s specifications defined in Table 75–5 (10GBASE–PR–D transmit ~~specification~~characteristics) and in Table 60–3 or Table 60–6 (1000BASE–PX–D transmit characteristics).

75.6.2 Upstream dual–rate operation

When the upstream dual–rate operation is enabled, the OLT receives both 10 Gb/s and 1 Gb/s upstream signals in TDMA manner. Further implementation details are described in Annex 75A. The OLT should meet both 10 Gb/s and 1 Gb/s specifications defined in Table 75–6 (10GBASE–PR–D receive characteristics), and in Table 60–5, Table 60–8 (1000BASE–PX–D receive characteristics) and Table 75–7 (10/1GBASE–PRX–D receive characteristics).

NOTE—The damage threshold values in Table 60-5, Table 60-8 and Table 75–7 are considerably higher than those in Table 75–6 ~~and the PMD should be appropriately labeled.~~

Summary of Comments on 75

Page: 1

Sequence number: 1
Author: Marek Hajduczenia
Subject: Replacement Text
Date: 24-10-2008 9:10:36
supporting

Sequence number: 2
Author: Marek Hajduczenia
Subject: Inserted Text
Date: 24-10-2008 9:10:28

Sequence number: 3
Author: Marek Hajduczenia
Subject: Inserted Text
Date: 24-10-2008 9:10:26

Sequence number: 4
Author: Marek Hajduczenia
Subject: Comment on Text
Date: 24-10-2008 9:14:31
extend the size of the table as per comment #2689

Sequence number: 5
Author: Marek Hajduczenia
Subject: Inserted Text
Date: 24-10-2008 9:12:50
in direction

Sequence number: 6
Author: Marek Hajduczenia
Subject: Replacement Text
Date: 24-10-2008 9:13:16
d

Sequence number: 7
Author: Marek Hajduczenia
Subject: Replacement Text
Date: 24-10-2008 9:13:17
u

Sequence number: 8
Author: Marek Hajduczenia
Subject: Inserted Text
Date: 24-10-2008 9:13:14
and

Sequence number: 9
Author: Marek Hajduczenia
Subject: Replacement Text
Date: 24-10-2008 9:13:18
d

Sequence number: 10
Author: Marek Hajduczenia
Subject: Replacement Text
Date: 24-10-2008 9:13:20
u

Sequence number: 11
Author: Marek Hajduczenia
Subject: Comment on Text
Date: 24-10-2008 9:15:02
No line break !!!

Sequence number: 12
Author: Marek Hajduczenia
Subject: Comment on Text
Date: 24-10-2008 9:14:52
No line break !!!

Sequence number: 13
Author: Marek Hajduczenia
Subject: Cross-Out
Date: 24-10-2008 9:11:46

Sequence number: 14
Author: Marek Hajduczenia
Subject: Replacement Text
Date: 24-10-2008 9:28:30
; the dual-rate PMD should be labeled appropriately.