

Dual Rate PMD Ad-hoc Report

Frank Effenberger
Huawei Technologies
March 2007

Objective

- The group was to consider the technical issues concerning a dual rate (1G and 10G) burst mode OLT receiver
- Interchanges were conducted on the general exploder, using the tag [Dual-rate PMD]

Progress

- Draft presentation “PMD101” was circulated, which gave an analytical treatment the two proposed Rx topologies: parallel and serial
 - Some exchange ensued, obtained an important data point and new contribution
- This new contribution extended this theory, and explored APDs more deeply, uncovering yet more topologies: half serial
- Contribution was merged into a single draft, producing a comprehensive analysis, entitled “DualRateBurst”
 - This analysis indicates that both parallel and half-serial topologies look promising