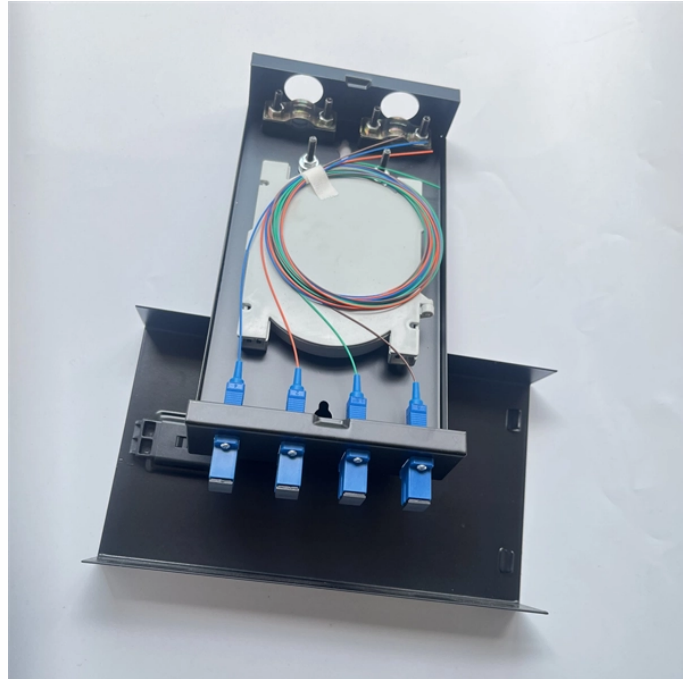


## OLT and ONU Spectrometer Algorithms



### Overview

In this paper, an (overlap and non-overlap)-based dynamic bandwidth allocation (DBA) algorithm with wavelength optimal length (WOL) for upstream channel in multi-OLT passive optical network (PON) is prop.



## OLT and ONU Spectrometer Algorithms



Based on the slicing idea of the flexible time- and wavelength-division multiplexing passive optical network (TWDM-PON), a dynamic PON slice restructuring algorithm (DRA) is ...



Visualization of OLT-and ONU-based wavelength control schemes (OLT: optical line terminal, RN: remote node, AWG: arrayed waveguide grating, ONU: optical networking unit).



Service companies and subscribers can make service level agreements (SLA) on the amount of bandwidth that each OLT or ONU requires. A new control protocol and bandwidth ...



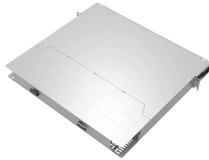
By implementing an efficient ONU transfer algorithm, load balancing is also managed in VM-PON among all the OLTs. To improve the network performance and reduce latency, optical ...



First, we propose a heuristic algorithm that combines optical line terminal (OLT) monitoring data with OTDR traces to detect and localize faults in PONs without requiring expensive reflectors installed at ...



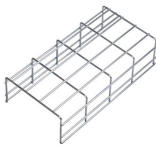
The choice of reference TDP(VECP) = 0.5dB is consistent with the expected best case for cooled DML TP and is proposed as a starting value for the ONU TX and OLT RX specs.



For on-line optimization, a greedy GLB algorithm is introduced that regroups the ONUs and generates load-balanced target ONU-OLT affiliations in accordance with dynamic traffic ...



In this study, a novel dynamic bandwidth allocation (DBA) algorithm for the downstream channel in a multi-OLT PON is proposed. To take care of bandwidth demands of different users, ...



In this work we demonstrate integrated multichannel transceivers dedicated to cost-optimized, fiber-optic communication systems. Two different transceivers are discussed - Optical Line Termination (OLT) ...



ONU scheduling algorithm improves the wavelength bandwidth utilization. In this paper, an (overlap and non-overlap)-based dynamic bandwidth allocation (DBA) algorithm with wavelength ...



A condition of timestamp drift error occurs if the OLT's and ONU's LocalTime counters lose their synchronization or mutual alignment. This condition can be independently detected by the OLT or an ...

## Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.samastersbaseball.co.za>

Email: [sales@samastersbaseball.co.za](mailto:sales@samastersbaseball.co.za)

Phone: +27 63 874 2095

Address: 15 Innovation Drive, Technopark, Stellenbosch, 7600, South Africa

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