

Energy-Saving ONU Optical Network Unit Test Report



Overview

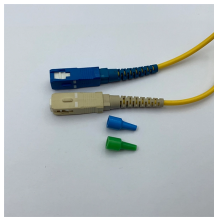
We propose a power consumption model for the ONU and evaluate the ONU power consumption in various next generation optical access (NGOA) architectures. Further, we study the impact of the power savings of the ONU in various low power modes such as power shedding . With the growing global deployment of Fiber-to-the-Home (FTTH) networks driven by the demand for ensuring high-capacity broadband services, mobile network operators (MNOs) face challenges of excessive energy consumption (EC) of wired optical access networks (OANs). This paper presents a. Abhishek Dixit, Bart Lannoo, Didier Colle, Mario Pickavet, and Piet Demeester The optical network unit (ONU), installed at a customer's premises, accounts for about 60% of power in current fiber-to-the-home (FTTH) networks. The invention relates to an energy saving method of ONU in an XG-PON system or a GPON system. In set time, the PON link of the ONU does not receive down customer data, and no up customer data is sent, the ONU enters deep sleep while sending a DG (dying gasp) message to tell the OLT (Optical Line. The range of communication services can be significantly expanded if an optical network unit (ONU) is driven by laser energy via an optical fiber. One use case in this context is driving an

ONU for collecting sensor data from IoT devices in an environment without a power supply (e.

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Abstract—This paper presents the potentials and challenges of a dynamic power saving technique in optical network units (ONUs) to achieve energy efficiency in passive optical networks.



One use case in this context is driving an ONU for collecting sensor data from IoT devices in an environment without a power supply (e.g., a mountain), but a single-mode fiber can ...



The main cause of higher power consumption of PON is optical network unit (ONU). In this study, we have surveyed the energy conservation schemes for present and next generation PON...



The invention relates to an energy saving method of ONU in an XG-PON system or a GPON system.



The paper discusses energy-efficient dynamic bandwidth allocation (DBA) for Ethernet passive optical networks (EPONs), highlighting the significant energy consumption of optical network units (ONUs) ...



The most important energy management and power-saving methods for Optical Line Terminals (OLTs) and Optical Network Units (ONUs), as key OAN components, are overviewed in ...



The optical network unit (ONU), installed at a customer's premises, accounts for about 60% of power in current fiber-to-the-home (FTTH) networks. We propose a power consumption model for the ONU ...



We propose a new dynamic bandwidth allocation algorithm for energy efficiency in next generation optical access (NGOA) networks, and evaluate the power savings possible at the optical network unit ...

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