Test Report on Energy-Saving ONT Optical Network Terminal

An embodiment of the present invention identifies faults in a PON by transmitting a test series of data patterns via an optical communications path from a first optical network node to a second optical ...

Software defined passive optical network (SPON) architecture is designed with OpenFlow protocol extension in this paper, based on which a novel energy-efficient control strategy is proposed ...

In this paper, new home network equipment alternatives for Passive Optical Networks (PON) are analyzed in terms of energy efficiency. Regarding Optical Network Terminations (ONT), relevant ...

TWDM-EPON allows saving energy at the Optical Line Terminal (OLT) along with Optical Network Units (ONUs), where existing protocols to save energy at ONUs of TDM-EPON can be...

upted power to keep the network running. This paper reviews aspects of powering the OSP active components of modern PON networks, including: power levels, utility grid isolation, utility backup dur.

We present a comprehensive survey of the energy conservation research efforts in PON starting from conventional PON to SDN based PON leveraging virtual and physical network ...

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 figure below shows the implementation of the energy saving solution. Based on traffic data, the PON port with low traffic are selected and on those energy management based on ...

Provided is a method of reducing power consumption of an optical access network (OAN) as much as possible by configuring an optical line terminal (OLT) and optical network terminals...

In this paper, we propose an Energy Management Mechanism (EMM) for downlink EPON systems. The proposed mechanism is designed to enhance the standardized control scheme in EPON with the ...

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