

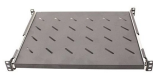
Energy-efficient ONU optical network unit for emergency communication



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



In order to extend the optical network unit (ONU) lifetime beyond 72 hours in Ethernet passive optical network (EPON) for emergency communications, this paper proposes proper MAC ...



First, it describes our energy-efficient timer-based deep sleep technique that temporarily shuts down almost all the components that comprise an ONU.



Abstract—This paper describes the implementation of an energy efficient Optical Network Unit (ECONU) on an Altera Stratix 4GT Field Programmable Gate Array (FPGA). An overview of the ECONU ...



Whenever autonomous ONU monitoring leads to recognition that the ONU is improperly transmitting, the ONU should attempt to signal an alarm (e.g., ONU problem, laser shutting down), and then turn the ...



This paper proposes an energy-saving passive optical network framework (ESPO) that aims to incorporate optical network unit (ONU) sleep/doze mode into dynamic bandwidth allocation (DBA) ...



This paper proposes an energy-saving passive optical network framework (ESPO) that aims to incorporate optical network unit (ONU) sleep/doze mode into ...



uity design, a drastic enhancement in energy-efficiency figures of OSMP-EO is achieved. On the other hand, the energy-efficiency figures of SMP-EO are less sensitive to the power consumption of the ...



This paper proposes a flexible, energy-efficient, time and wavelength division multiplexed (TWDM) PON architecture that has the capability of centralized optical line terminal (OLT) resource ...



Therefore, NTT Access Network Service Systems Laboratories is researching and developing an optical-power-supplied optical network unit (ONU) that enables IoT communication by using optical ...

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