ABSTRACT

PT. Telkom Inframaintenance Regional 4 Jawa Tengah is a unit that handles repair of damaged network equipment such as GPON, MSAN, DSLAM, DLC, ONU, ONT, routers, switches, and other network devices. The purpose of repairing the network equipment is to restore the function of the network device to return to normal and usable. As in the GPFA module on GPON devices where the GPFA module is a data service that manages data services to customers or users. In the GPFA module there are 4 ports where each port can serve 32 users. So that in one module GPFA can serve at least 128 users, so in one OLT it can service 1280 users. The port on the GPFA module is an SPF port which stands for Pluggable Small Form-Factor where this SFP is a function that converts an optical fiber signal into an electrical signal when receiving, and conversely converts an electrical signal into a fiber optic signal when sending data. Then to ensure that the repaired network device can return to normal functioning, it is necessary to test the device first. Testing is done by installing the GPFA module on the ZTE ZXA10 C220 OLT device for configuration to find out and prove that the device can function normally. When the GPFA module device has been tested and proven to function normally, the device will be returned to the administrative staff to be recorded and stored or directly installed in the field if needed.

Keywords: GPON, OLT, GPFA, fiber optic.