

Abstract

In this thesis project examines the possibility of organizing the multi-service subscriber access network in the city of Almaty in the area of Soltustik.

Describes the basic concepts of multi-service subscriber access networks, the characteristics of the PON and GPON, the scheme of the projected area, the equipment described GPON and fiber-optic cable and the characteristics of the subscriber access network.

In the economic part of the calculation of the capital investments and operating expenses, determined by the payback period of this project.

In the section "Safety" calculation of artificial lighting and air conditioning systems