

## **Annotation**

In this diploma project, a network was developed based on the FTTB technology for subscriber access in the Almaty region. Possible technologies of broadband subscriber access FTTx are considered. FTTB is selected as preferred. We reviewed its features, advantages and disadvantages, as well as its implementation in Kazakhstan. The network architecture and hardware are proposed.

A business plan was developed that proved the economic efficiency of the project, and measures for life safety were provided.