

OPTICAL SIGNAL TRANSMISSION METHOD AND APPARATUS

ABSTRACT

This application discloses an optical signal transmission method and an apparatus, to reduce processing complexity while maximizing bandwidth utilization. An OPUk multiplexing frame with a bit rate greater than 1.25 Gbps is constructed by using a structure of an OPU0 multiplexing frame, so that the structure of the OPU0 multiplexing frame can be reused by a structure of the OPUk multiplexing frame, and the structure of the OPUk multiplexing frame is aligned with the structure of the OPU0 multiplexing frame. The OPUk multiplexing frame includes an integer multiple of OPUk frames, and a boundary of the OPUk multiplexing frame remains aligned with a boundary of the OPUk frame. In this way, when mapping an OSU frame, an OTN device may map the OSU frame to the OPUk multiplexing frame based on the reused structure of the OPU0 multiplexing frame. A position of a payload block may be quickly obtained in each transport period, thereby reducing processing complexity.

FIG. 10