

LINEAR PLUGGABLE OPTICAL MODULE AND METHOD FOR IMPLEMENTING HIGH STABILITY AND LOW POWER CONSUMPTION THEREFOR

ABSTRACT

Embodiments of the present disclosure provide a linear pluggable optical module, and a method for implementing high stability and low power consumption for the linear pluggable optical module, relating to the technical field of linear pluggable optical modules. By arranging a Buck-Boost DC-DC conversion module at the power supply input port of the linear pluggable optical module, the system power supply on the Host side and the power supply of the linear pluggable optical module can be isolated, achieving the effect of isolating power supply noise from the system side, thereby improving the application stability of the linear pluggable optical module. By directly supplying current to the high-power laser through the arranged DC-DC conversion module, the headroom of the current-mode digital-to-analog converter is eliminated, reducing the power consumption of the linear pluggable optical module.

Fig 1.