

AUTOMATIC GAIN CONTROL METHOD, MICROCONTROLLER UNIT, AND AUTOMATIC GAIN CONTROL SYSTEM

Abstract

An automatic gain control method includes: first, after configuring and initializing the peak detection device in an optical module, and inserting the optical module into a target port of a network device, obtaining a peak value of the peak detection device at a preset frequency, wherein the peak value at the preset frequency comprises peak values at two frequencies; second, calculating an insertion loss value based on the peak value at the preset frequency; then, calculating an automatic gain control target value for the target port based on the insertion loss value; and finally, adjusting a gain of a linear driver with a goal of matching the automatic gain control target value. Based on the foregoing method, the problem of relatively low consistency of extinction ratios among channels in the prior art can be improved.

Fig 2.