

Cloud Accelerator for matching function

Introduction

Cloud Accelerator for matching function is one of Axonerve solution products. It is a PCIe board having capability of fast matching operations by Axonerve search engine built in FPGA.

The built-in Axonerve search engine can perform the entry table maintenance and search operations via PCIe from software-based network equipment like software router, software switch, etc. From software's point of view, this accelerator works as associative memory library that processes the table lookup at a speed worthy of 100Gb full wire rate, which helps enhance the total performance of software-based network equipment.

Features

- DPDK compliant interface
- 288~1024 bit search key
- 1M rule table (*)
- 100Gb line rate search performance
- Operations
 - ✧ Entry write/read/delete/update
 - ✧ Aging operations (optional)

(*) NOTE: Maximum capacity depends on target FPGA resource budget.

Search Acceleration System Example

