R672

Network Expansion Module

▶ Features

- 1x Intel® E810-CAM1
- 4x 25GbE SFP28 Ports
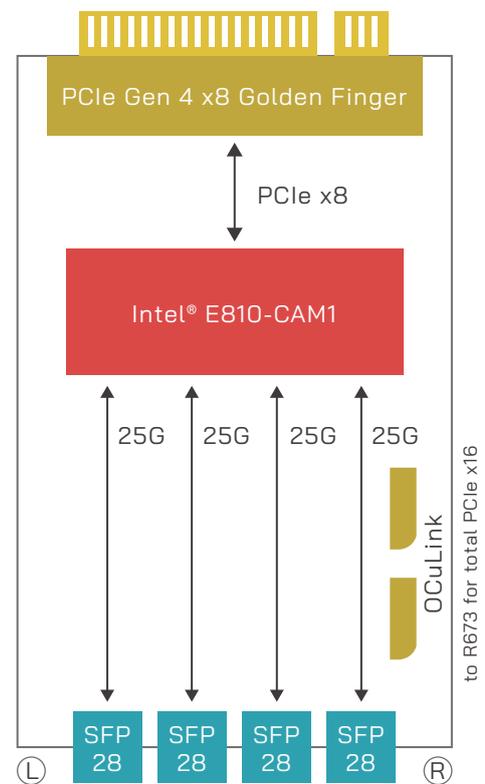- Support ADQ, DDP, DPDK, RDMA, SR-IOV, VMDq

▶ Introduction

AEWIN R672 Network Expansion Module is built upon the Intel® E810-CAM1 chipset, featuring 4x 25GbE SFP28 ports . SR-IOV functionality is enabled to offer DMA access for virtual machines, as well as DPDK enabled drivers for enhanced packet forwarding performance. Advanced function such as ADQ, iWARP and RoCE v2 are also available. Capable of supporting PCIe Gen 4 x8 connection, or utilizing an add-on module to enable PCIe Gen 3 x16 connection to support 100GbE in PCIe Gen 3 systems.
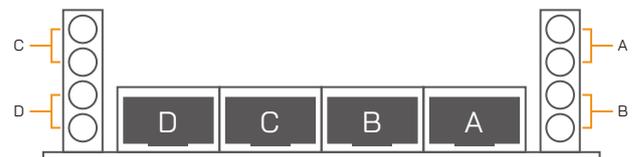
▶ Specification

Platform	
Form Factor	AEWIN Expansion Module
LAN Controller	1x Intel® E810-CAM1
LAN Switch	-
Features	ADQ, DDP, DPDK, RDMA, SR-IOV, VMDq
Ethernet Port	4x 25GbE SFP28 Ports
Bypass	-
Bus Type	PCIe Gen 4 x8
Mechanical	Dimension(W x D x H): 74 x 194 x 29 mm Weight(with tray): 335g Weight(without tray): 145g

Environmental	
Operating Environment	Temperature: 0-45°C(32-113°F) Humidity: 20-90% RH
Storage Environment	Temperature: 0 -70°C(14-158°F) Humidity: 5-95% RH @ 55°C
OS Support	Windows, Linux, FreeBSD

▶ Order Information

R672A	1x Intel® E810-CAM1, 4x 25GbE SFP28 Fiber, Ports Sequence Right to Left

▶ Block Diagram

▶ LED

LED	State		Description
Upper LAN LED (LNK/ACT)	Green	🟩	Link: Always on Active: Blinking
Down LAN LED (Speed)	Green	🟩	25 Gbps data rate
	Yellow	🟨	below 25 Gbps data rate

R672+R673

▶ Introduction

R673 Interface expansion card. It utilizes 2x OCulink connectors to add additional PCIe x8 signal for the host card.

▶ Block Diagram

R672

R673

PCIe x16

PCIe Gen 3 x8 Golden Finger

PCIe Gen 3 x8 Golden Finger

PCIe x8

PCIe x8

Intel® E810-CAM1

25G 25G 25G 25G

OCuLink

SFP 28 SFP 28 SFP 28 SFP 28

Ⓛ Ⓡ