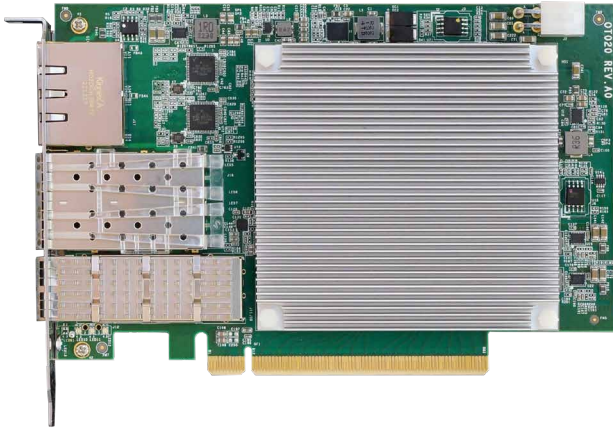# OT020

QAT(Crypto Acceleration) Card

▶ Features

- Intel® E810-CAM1, Intel® C627 PCH
- 1x QSFP28 100G LAN port, or extending to 4x 25G LAN ports.
- 2x 10G SFP+ ports
- 2x 1G RJ45 ports
- QAT adaptor

RJ45 | SFP+ | SFP28 | Efficacy

▶ Introduction

AEWIN is ready to accelerates cryptography and compression workloads with latest Intel® QuickAssist Technology enabled adaptor. Powered by Intel C627 chipset, AEWIN OT020 are designed to offer hardware acceleration in compute intensive tasks, such as encryption and compression workloads, freeing up CPU for additional tasks.

Utilizing the widely supported QuickAssist API, these adaptors can enable additional layer of security through a variety of cryptographic algorithms, such as RSA, AES, and KASUMI. OT020 provides up to 100Gbps throughput in AES128, and up to 472k ops/sec in RSA. Additionally, they can be used to compress data to free up congested network bandwidth, or reduce storage requirements.

AEWIN's new QAT adaptors are standard Full-Height, Half-Length PCIe form factor with 1 PCIe x16 Gold Fingers connection to 2x PCIe x8 host. That equipped with 1x QSFP28 100G LAN port, 2x RJ45 1GbE LAN ports and 2x SFP+ 10GbE LAN ports, it extends the security and connectivity of your system. Please contact AEWIN sales representatives and see how to integrate QAT into your AEWIN servers.

▶ Specification

Platform	
Form Factor	Standard PCIe x16 HHHL
LAN Controller	Intel® E810-CAM1, Intel® C627 PCH
Ethernet Port	1x 100G QSFP28 port 2x 10G SFP+ ports 2x 1G RJ45 ports
Bypass	-
Bus Type	1x PCIe Gen 4 x8 + 1x PCIe Gen 3 x8
Mechanical	Dimension(W x D x H): 111.15 x 167.65 x 18.66 mm Weight(with Heatsink & Bracket): 290g

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

▶ Order Information

OT020A	Expansion module for Standard PCIe x16 FHHL QAT card with 1x 100G QSFP28, 2x 10G SFP+, 2x 1GbE RJ45 LAN ports, Intel E810-CAM1 + Intel C627 PCH + Marvell 88E1512 PHY