ANIC-40Kq
Single 40GE/4 X 10GE Gen 3 Advanced Flow Processor

Feature Summary

- Lossless Packet Capture

- Gigamon, Arista Timestamp

- Packet Merging

- Packet Parsing

- Tunneling Protocol Processing

- Packet Slicing

- Packet Filtering

- Deduplication

- Flow Classification

- Flow Based Filtering

- Packet Steering

- DMA (Direct Memory Access)

- Multi-core DMA

- PF_RING

- Timestamp 5.7 nS

- RMON1 (RFC 2819) Statistics

- Onboard Sensors

The ANIC-40Kq is an advanced PCIe Gen 3, 40GE flow processor featuring a single QSFP+ Interface which support operations as a single 40GigE or 4 X 10GigE adapter designed for lossless packet capture and state of the art flow classification functions. Ideal for mission critical Network Monitoring and Security applications requiring host CPU offload, the ANIC-40Kq is based on Accolade's next generation Advanced Packet Processor implemented in an FPGA.

The ANIC-40Kq is designed for full lossless packet capture and transfer at 40 Gbps across the PCIe bus and supported by an 8 GB high performance DDR4 Memory sub-system.

Advanced host CPU offload functions include Flow Classification, Traffic Management and Packet De-duplication. The ANIC-40Kq's DMA Memory sub-system is designed for efficient burst transfers of data across the 8 lane Gen 3 PCI Express Bus. The ANIC-40Kq presents data in a programmable organization of Buffer Rings which enable load balancing and optimized use of Multi-Core CPU Resources.

Timing Sub-System

The timing sub-system in the ANIC-40Kq features an optional Temperature Controlled Crystal Oscillator (TCXO) as a stable high precision clock source. The ANIC-40Kq features a flexible timing sub-system which may be disciplined to NTP, IEEE-1588 and 1 PPS input from external GPS, GSM and CDMA timing sources.

Software Support

The ANIC-40Kq is available with a software development guide, Linux Drivers, sample code, and a comprehensive API that supports access to Hardware Health (PHY Status, Onboard Temperature, Voltages).

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Applications

- Passive TAP Monitoring

- Span and Mirror Port Monitoring

- In-Line Monitoring

- Network Latency Measurement

- Packet Generator / Playback

- Network Forensics

- Intrusion Detection

ANIC-40Kq
Hardware Specifications

PCI Interface	8 lanes Gen 3 PCI Express
Ethernet Compliance	802.3aq for 10GbE and 802.3ba for 40GbE
Time Stamping	Resolution to 5.7 nS
Timing Interfaces	1 PPS Interface
Packet Memory	4 GB DDR4 Capture Buffer
Table Memory	4 GB DDR4
Compliance	EMI per FCC Part 15/EN 55022/VCCI/AS/NZS Immunity per EN 55024 RoHS
Power	Max 30 Watts without QSFP+ Modules
Operating Temperature	0 to 50 deg C
Operating Humidity	0 to 95% non-condensing
Card Dimensions	4.25 x 6.5 inches / 107 x 165 mm