

# Korusync PTP PCIe Card

## PRODUCT BRIEF

### Overview

The Korusys Korusync PCIe Card is an industry standard PCIe card with the ability to deliver highly accurate time and synchronisation via the IEEE 1588-2008 protocol.

The unique characteristic of the Korusync PTP card is its class leading synchronisation performance over a wide variety of networks and network loading conditions. Uniquely it has passed the stringent performance requirements of the G.8261 Telecom Synchronisation standard.

The card is supplied with software that allows the host servers system clock to be accurately synchronized to the recovered PTP clock. This ensures that individual servers within a server farm can be synchronized to within tens of nanoseconds of UTC.

The card is also optionally supplied with a 'Timing Toolkit' that provides a solution to common problems in accessing and consuming time inside the server.

The Timing Toolkit consists of two parts. Firstly a lightweight software clock allows low latency high precision access to the time across cores. This consequently solves the common problems of mode switching, high latency and low precision that is prevalent in standard Linux time.

The Toolkit also provides for an extremely lightweight timestamped logging function to help instrument time critical issues within the server software. This solves issues, typically prevalent in applications such as High Frequency Trading, where algorithms benefit from a sense of true time, accurate latency measurements and ultra precise logging records for back-testing purposes.

### Features

- Fully IEEE1588-2008 standard compliant.
- Nanosecond accurate hardware time-stamping.
- Meets stringent performance requirements of G.8261 Telecom Standards.
- Highest accuracy IEEE1588 implementation of any card on the market.
- High performance oven controlled oscillator.
- Software API provided to allow for simple logging of server transaction events.
- Seamless and accurate training of the server's time to the card time allowing for true plug and play operation. No re-tasking of customer software required.
- Class leading Clock recovery algorithm runs on the card – no PC processor load.

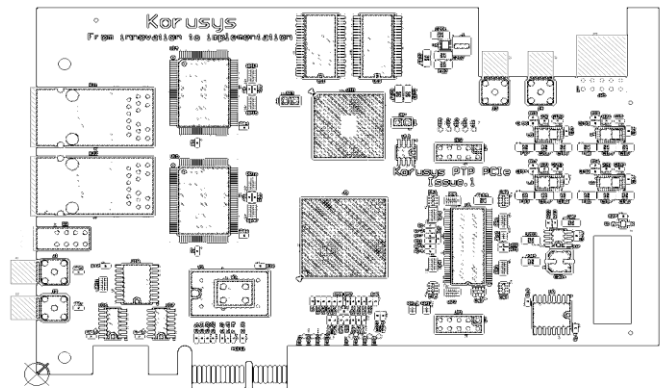


Fig. 1: Korusync PTP Card

### Ordering Information

To order, or for enquiries, please contact us:

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