

Oscilloquartz OSAinside[™]

Data Sheet

OSA SoftSync™

Precise timing delivery as a software application

5°G-2°

5G Mobile

Dofonco

Defense Do

Data center

Transportation

Q

Broadcast

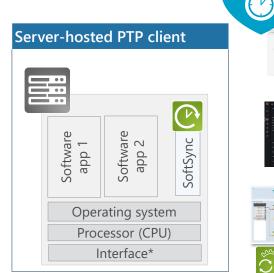
<u> </u>

Benefits

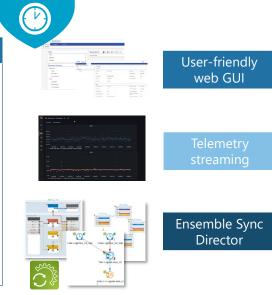
- Improved timing accuracy Use of IEEE 1588v2 Precision Time Protocol (PTP) to enhance the accuracy of time delivered by operating systems
- Seamless integration
 Simple installation without the need to modify any host application and verified interoperability with Oscilloquartz PTP grandmaster portfolio
- Leveraging Syncjack™ technology Built-in synchronization accuracy and traceability monitoring
- Resiliency Dynamic selection of best synchorization source, mitigating any time source outage, quality degradation or topology changes
- Industry-leading techonology Leveraging unique Oscilloquartz clock recovery algorithms, time delivery and performance monitoring
- Simple and transparent operations
 Ease of operation with modren web-based
 GUI as well as telemetry data streaming

Overview

The ever increasing need for accurate synchronization requires IT systems and enterprises to move from the currently applied NTP protocol to PTP. IT teams will need to add PTP capabilities to servers and other network devices. This is not an easy task, as most network equipment vendors don't have expertise in utilizing PTP. Our OSA SoftSync™ provides a simple way to augment Linux OS with a sophisticated and accurate PTP clock client. Our OSA SoftSync[™] is a software application running in a host machine that delivers precise timing information to the local system clock by means of standard system APIs. Built on our industry-leading implementation of IEEE 1588v2 Precision Time Protocol (PTP), our SoftSync[™] is fully compatible with all relevant standards. It can be deployed as a standalone clock in a third-party network or as part of an Oscilloquartz solution for precise end-to-end timing delivery.



*optional hardware timestamping



Oscilloquartz intelligent aPNT+™ client

aPNT+™

OSA SOFTSYNC™

High-level technical specifications

General information

- Support for popular Linux distributions
- Support for PTP protocol
- Disciplining operation system clock to the best timing source

Time delivery

- PTP over IPv4/IPv6 using "IEEE 1588 2008 L3 Default" and "Enterprise" profiles
- Support for HW and SW timestamping
- Typical time recovery accuracy <100ns with hardware timestamping

Syncjack[™] technology

- UTC traceability monitoring
- Offset from master measurements
- Performance statistics
- Alarms and threshold crossing notifications
- Use of gNMI telemetry

Local management

- Web-based GUI for local configuration and monitoring
- Fault management
- Advanced logging for events

Network management

- SNMP interface with Sync Manager
- Network-wide performance monitoring and testing

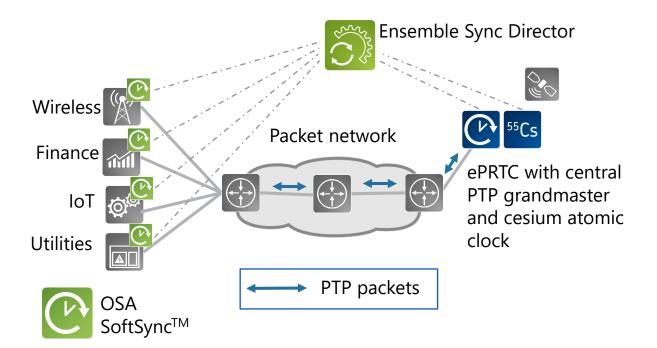
Compatibility

- Fully compatible with OSA end-to-end synchronization solutions
- Compatible with third-party time servers

Applications in your network

Software application to deliver precise timing information to:

- Financial institutions, enterprises, broadcast applications among many others
- Improving timing accuracy in data centers
- 5G mobile networks
- Time-sensitive internet of things (IoT) applications



<u>AOSCILLOQUARTZ</u>

July Copyright © 2023 Adtran, Inc. All rights reserved. Adtran believes the information in this publication to be accurate as of publication date, and is not responsible for error. Specifications subject to change without notice. Adtran and the other trademarks listed at www.adtran.com/trademarks are registered trademarks of Adtran, Inc. or its affiliates in various countries. All other trademarks mentioned in this document are the property of their respective owners.

Adtran warranty duration and entitlements vary by product and geography. For specific warranty information, visit www.adtran.com/warranty

Adtran products may be subject to U.S. export controls and other trade restrictions. Any export, re-export, or transfer of the products contrary to law is prohibited. For more information regarding exportation of Adtran items (e.g. commodities, technology, software), please visit www.adtran.com/exportlicense.



