Precision Time Synchronization ... Why specify an EPMS without it?





CYBER SCIENCES

Synchronized Timestamping of Recorded Events

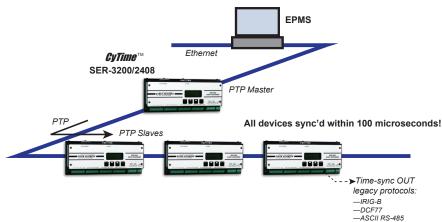
Modern Electrical Power Management Systems (EPMS) require precision time synchronization of devices for reliable operation and meaningful data analysis. CyTime[™] Sequence of Events Recorders (SER) record state changes to 1 msec *and* serve as a time-sync hub for other devices. SERs sync automatically via PTP (IEEE 1588), and generate legacy protocols (e.g., IRIG-B) for relays and meters.

Act now! Download SER guide specs, white papers and more—visit:

www.cyber-sciences.com/specify

1588

CyTime[™] Sequence of Events Recorders are an essential part of an Electrical Power Management System (EPMS). High-speed digital I/O (32) monitor the status of circuit breakers, relays, generators, or UPS. PTP (per IEEE 1588) enables automatic time synchronization over Ethernet within 0.1 msec. Specifically, Cyber Sciences proposes the "Simple PTP" profile (SPTP), which achieves hi-res time sync without special Ethernet switches. Have relays and meters that don't support PTP yet? No problem. An SER-3200/2408 can accept PTP, then output the legacy protocol required.



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Let us help with your next power monitoring project:

- **FREE**—design assistance for Sequence of Events Recording systems
- FREE—online technical library and training courses, 24/7
- **FREE**—responsive tech support via email, phone or fax



For More Info...

INTRODUCTION

Handout : SER Overview Presentation : PTP-Enabled SER Data Sheet: PTP-Enabled SER Data Sheet: CyTime SER-3200/2408

INSTRUCTION BULLETINS

CyTime SER User's Guide CyTime SER Reference Guide

TECH NOTES (White Papers)

PTP-Enabled Hi-Res Time-Sync SER System Architectures with PTP Measuring Breaker Opening Times Legacy Time Codes (e.g., IRIG-B)

LEARNING

Online Demo Online Technical Training SER Guide Specs (doc or pdf) SockMonkey demo game (Fun way to illustrate SER)

Find these resources and more in the Cyber Sciences Technical Library:

www.cyber-sciences.com/library

Precision Timing for Reliable Power. Simplified. SM