

# Cyber Sciences

## Product Line-up

Cyber Sciences is the global leader in precision time solutions for critical power facilities, including data centers, hospitals, industrial and commercial applications, universities, airports, and others.

### Products:



Sequence of Events Recorder  
Model Number: SER-3200



Sequence of Events Recorder  
Model Number: SER-2408



Event Manager  
Model Number: EM-100

### Sequence of Event Recorders:

CyTime™ Sequence of Event Recorders (SER) record status changes time-stamped to 1 ms. Time synchronization is achieved via PTP (IEEE 1588), IRIG-B, DCF77, NTP, Modbus TCP or an RS-485 signal from another SER. An embedded web server allows setup over a network using a standard browser, including easy access to all events, status and even custom pages.

	SER-2408	SER-3200
Digital Inputs	24	32
Relay Outputs	8 (Solid State)	N/A
High Speed Trigger Output	Yes	Yes
Input Voltage	24 Vdc	24 Vdc
Time Source (IN) Protocols	PTP, NTP, IRIG-B, DCF77, Inter-SER, Manual	PTP, NTP, IRIG-B, DCF77, Inter-SER, Manual
Time Sync (OUT) Protocols	PTP, IRIG-B, DCF77, 1 per 10, ASCII / Inter-SER	PTP, IRIG-B, DCF77, 1 per 10, ASCII / Inter-SER
Clock Accuracy - <100 ms	Yes	Yes
Communications	Modbus TCP, FTP	Modbus TCP, FTP

### Event Manager:

The CyTime™ Event Manager provides the ability to view and monitor I/O status from multiple Sequence of Event Recorders (SERs) in one easy to understand web interface. This helps to provide an overall view of the diagnostic health of the critical power system. It also allows for the consolidation of events from all downstream SERs pertaining to a single incident, providing fast and powerful event reconstruction analysis.

# Cyber Sciences: Product Line-up



Satellite Time Reference  
Model Number: STR-100

## GPS Time Sync - Satellite Time Reference:

The STR-100 Satellite Time Reference is a microprocessor-based device that accepts GPS time signals from a smart antenna or receiver and outputs a time synchronization signal to power system devices for sequence of events recording (SER) applications.



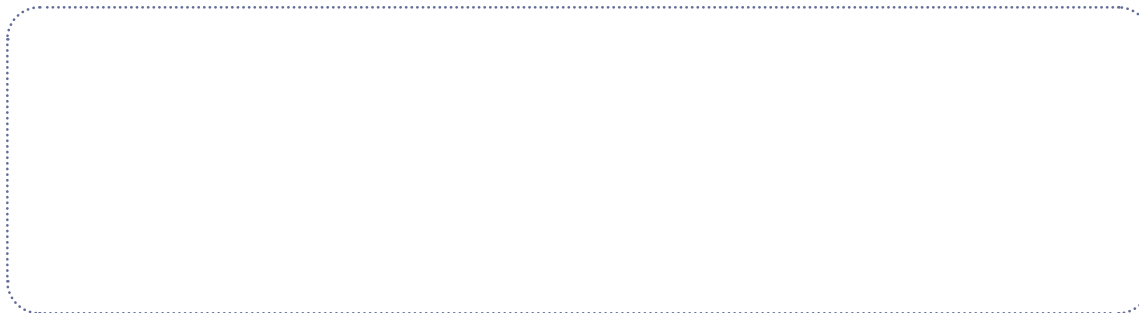
RS-485 Connectivity  
Model Number: CNV-100

## 2 to 4 Wire Converter:

Ensure connectivity of RS-485 devices with the CNV-100, which enables interoperability of RS485 2-wire and 4-wire multi-point data communication networks. The CNV-100 connects 2-wire devices to 4-wire systems or 4-wire devices to 2-wire systems. LEDs flash to confirm data transmit/receive at both 2-wire and 4-wire sides. The CNV-100 can be used with any protocol that adheres to the RS-485 standard operating at baud rates of 9600, 19.2k or 38.4k bps.

## Ordering Information

Catalog no.	Description
SER-2408-P2X2	CyTime SER, 24 inputs, 8 outputs, 24Vdc power, DIN Rail Mount (11.25" W x 4.75" H x 2.32" D)
SER-2408-PTP	CyTime SER, 24 inputs, 8 outputs, 24Vdc power, PTP Enabled, DIN Rail Mount (11.25" W x 4.75" H x 2.32" D)
SER-2408-32GB	CyTime SER, 24 inputs, 8 outputs, 24Vdc power, 32GB Memory, DIN Rail Mount (11.25" W x 4.75" H x 2.32" D)
SER-3200-P2X2	CyTime SER, 32 inputs, 24Vdc power, DIN Rail Mount (11.25" W x 4.75" H x 2.32" D)
SER-3200-PTP	CyTime SER, 32 inputs, 24Vdc power, PTP Enabled, DIN Rail Mount (11.25" W x 4.75" H x 2.32" D)
SER-3200-32GB	CyTime SER, 32 inputs, 24Vdc power, 32GB Memory, DIN Rail Mount (11.25" W x 4.75" H x 2.32" D)
EM-100-25	CyTime Event Manager, Din Rail Mount, 25 Unit Support, (3.9" W x 4.37" H x 1.0" D)
EM-100-UNL	CyTime Event Manager, Din Rail Mount, Unlimited Unit Support, (3.9" W x 4.37" H x 1.0" D)
STR-100	Satellite Time Reference, DCF-77, 1per10 Output (1.50" W x 7.92" H x 4.81" D)
STR-100/IRIG-B	Satellite Time Reference, Unmodulated IRIG-B Output (1.50" W x 7.92" H x 4.81" D)
STR-IDM	IRIG-B Distribution Module for STR (2.7" W x 4.7" H x 2.0" D)
CNV-100	RS-485 2-Wire-to-4-Wire Converter (1.5" W x 4.0" H x 1.5" D)
PLX-5V	PTP Legacy Interface, 5V, 24Vdc, connects to SER connector (DB-15), (2.92" W x 1.72" H x .84" D)
PLX-24V	PTP Legacy Interface, 24V, 24Vdc, connects to SER connector (DB-15), (2.92" W x 1.72" H x 1.12" D)
EZC-IRIG-B	EZ Connector for IRIG-B, connects to SER connector (DB-15), (1.77" W x 1.51" H x .58" D)
EZC-DCF77	EZ Connector for DCF77, connects to SER connector (DB-15), (2.92" W x 1.72" H x .58" D)



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**Your Trusted Partner for Critical Power Loss Restoration!**

