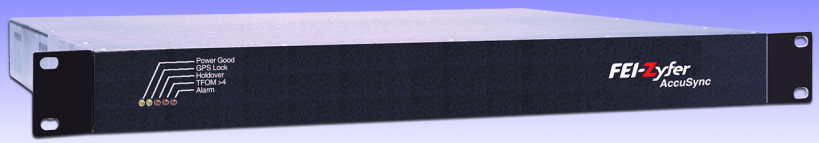
FEI-Zyfer

GPS Time and Frequency Systems

AccuSync®

Designed, Manufactured, and Supported in the USA



AccuSync Model 373

System Features:

- **Low Phase Noise**
- **Output Ports:** 10 MHz (5), 1 PPS (2)
- **Connector Options:** SMA or SMB
- **Flash Memory**
- **User Interface:** Standard RS-232
- **Built In Frequency Distribution**

The AccuSync® is a rack-mount unit that provides highly accurate timing and frequency output signals synchronized to Universal Coordinated Time (UTC). The unit is optimized to provide superior long-term performance for Telecom applications such as PCS base station synchronization.

The AccuSync offers third generation technology proven in “real world” high-volume deployments. The unit features front panel status indicators for key system activities. Updating your AccuSync in the future is made easy with flash memory for remote software updates. Operation is automatic and self-calibrating. Controlling and performance monitoring are provided via an RS-232 I/O interface.

Rear Panel View

Power Supply AC or DC

RS-232

1 PPS, 10 MHz

FEI-Zyfer, Inc.
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AccuSync® Specifications

Output Specifications (a,b)

10 MHz Output:	
Quantity:	5 SMA or SMB Connectors
Accuracy, Time Locked:	1E-12 (one day average)
Accuracy, Coasting:	1E-10 per day

Short-Term Stability (Allan Deviation):	
1 sec:	3E-11
10 sec:	1E-11
100 sec:	1E-10

Wave Shape:	Sinusoid
Amplitude:	16 +1, -2 dBm into 50Ω
Harmonics:	-50 dBc
Spurious Level:	-60 dBc

Phase Noise:	
1Hz:	-85 dBc/Hz
10Hz:	-115 dBc/Hz
100Hz:	-135 dBc/Hz
1kHz:	-145 dBc/Hz

1 PPS Output:	
Quantity:	2 SMA or SMB Connectors
Wave Shape, Width:	Pulse, 2 ms
Level:	TTL into 50Ω
Synchronization:	Rising edge on-time
Accuracy, Time Locked:	100 ns referenced to UTC
Accuracy, Coasting:	< 7 µs per day
Output Jitter:	1 ns

Control Port:	
Signal Levels:	RS-232C
Connector:	9-pin, D-Sub
Baud Rate:	19200
Protocol:	1 Start Bit, 8 Data Bits, 1 Stop Bit, No Parity

Output Specifications, cont.

TOD Output:	
Signal Levels:	RS-232C
Connector:	9-pin, D-Sub
Baud Rate:	9600
Protocol:	1S, 8D, 1S, No Parity
Transmit Rate:	Every sec. / even sec., selectable
Time Content:	Years, days, seconds
Time Reference:	GPS or UTC, selectable

GPS Receiver

Standard GPS Rcvr:	Civil C/A Code
Type:	12 Channel L1
Connector:	TNC Female

Power Options

Available with AC or DC power:	
AC:	115/230 VAC, 50-60 Hz, 50W Max.
DC:	20-53 VDC, 1.2A @ 20 VDC Max.

Chassis Dimensions

Height:	44 mm (1.75") (1U)
Width:	420 mm (16.5") (19" EIA Rack)
Depth:	305 mm (12.0") including connectors
Weight:	4.1 kg (9 lbs.) (max.)

Environmental

Operating Temperature:	0°C to 55°C
Rate of Change:	15°C / Hour
Storage Temperature:	-40°C to +85°C
Relative Humidity:	5% to 95%, non-condensing
Altitude, Operating:	-60m to 4000m
Altitude, Storage:	-60m to 9000m

Notes:

(a) After 72 hours of GPS locked operation, fixed antenna location, correct position and antenna cable delay entered.

(b) Ambient temperature change < plus or minus 10°C.

FEI-Zyfer, Inc. is an ISO 9001 certified company.

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