## Highly Precise Synchronization in Transmission and Distribution Networks



#### **Time and Frequency Synchronization**

with GPS, GLONASS, DCF77 and IRIG

#### **Network Time**

IEEE 1588 - PTP / IEEE C37.238-2011 / NTP

### **Applications**

Power Line Frequency Monitoring, SCADA, Time Source for IEDs, Bay Controller, Protection Relays

#### **Signal Generation**

IRIG Time Codes, DCF77, PPS, Electrical and Optical Interfaces



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# Precise Timing for Power Industries and the Smart Grid





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