Corporate Overview

Leading Total Systems Solutions Provider:

- High-performance standard and specialized Microcontroller, Digital Signal Controller and Microprocessor solutions
- Mixed-Signal, Analog, Interface and Security solutions
- Clock and Timing solutions
- Wireless and Wired Connectivity solutions
- FPGA solutions
- Non-volatile EEPROM and Flash Memory solutions
- Flash IP solutions

$6.8 Billion Revenue in FY2022

Headquartered near Phoenix in Chandler, AZ

~21,000 Employees
Modern smart power grids are complex networks that are highly dependent on precise and resilient timing to assure control and communication for efficient and continuous supply. The vPRTC architecture reduces dependency on GNSS while providing increased resiliency and protection.

The vPRTC is a highly secure and resilient timing architecture with advanced monitoring, visibility, and control capabilities to deliver protected timing over secure networks.

GNSS is the source of UTC traceable time. The BlueSky™ GNSS Firewall assures GNSS is validated and protected from potential jamming and spoofing cyber attacks. DHS PNT Resilience Level 4.

Highly precise Atomic Clocks provide long-term stability to hold time independently from GNSS. Fully autonomous atomic clocks are the heartbeat of the vPRTC resiliency.

GNSS plus Atomic Clocks are combined to establish an automatic timescale that can hold and distribute time for critical infrastructure using advanced PTP systems.
Virtually Primary Reference Time Clock

ITU.T G.8272.1 ePRTC standard
< 30 nanosecond accuracy

Situational Awareness with TimePictra®

Bidirectional PTP Timing Flows

Southbound PTP G.8275.1
timing accuracy < 100 nanosecond

Southbound PTP
IEC 61850-9-3
timing accuracy < 250 nanosecond

GridTime™ 3000

Protection X
Protection Y

< 1 microsecond for phasor measurement

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Thank You