

# TIME to SYNC

## Frequency and Time Newsletter

### Technology and Product Updates

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### SyncServer S600/S650 Version 3.1 Released!

Version 3.1 is a major release adding new hardware and software functions to the S600 and S650 models. There are many new standard software features, most by popular demand, as well as enhancements to existing software options. Also, all applicable CVEs have been mitigated.

[New S600 Datasheet](#)  
[New S650 Datasheet](#)



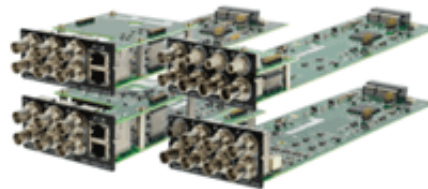
### TimeProvider 5000 PTP GrandMaster Doubles its Capacity

Microsemi engineering has achieved an innovative breakthrough in PTP packet engine efficiency that enables all TimeProvider 5000 PTP Grandmaster systems to double their capacity with no compromise to PTP packet rate performance. The industry leading TimeProvider 5000 can now accept a SW license update to double its PTP capacity from 1000 to 2000 PTP clients. [Learn More](#)

### TP4100 2.0 and IGM 3.0

Publicly announced on May 15, 2019, TimeProvider 4100 2.0 adds an expansion module for 10GE support. It features a High-Performance Boundary Clock Operation mode (Class D, 5ns). PTP Scalability increased to 790 clients, NTP to 140,000 tps. The Grandmaster meets the latest standard PRTC Class B (40 ns). [Learn More Now](#)

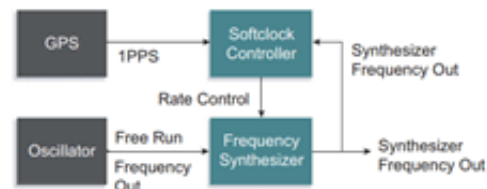
### New SyncServer S650 Timing I/O Modules



Four new S650 modules address the needs for T1/E1 I/O, HaveQuick/PTTI timing signals, and fiber interconnects. The timing modules with fiber I/O meet the requirements for very accurate, 1-way time transfer across security boundaries, while saving money by eliminating intermediate copper-to-fiber translators. [Read all about the new modules in the SyncServer Options Datasheet](#)

### New SyncServer Softclock Technology Application Note

Ever wonder how sophisticated, accurate time server clock disciplining technology has evolved over time and what the latest and greatest innovations are?



[More information: Timing Architecture for SyncServer S6xx Series](#)

### New TimeProvider 4100 2.0 10GE Expansion Module

The new 10GE expansion module features 4 SFP+ ports and 4 SFP ports. This module can offer 8 1GE port fan out or a combination of 4 10GE and 4 1GE ports to connect to higher speeds network elements. [Learn about the new modules HERE](#)



IGM 3.0 features a new “Plus” model with a new oscillator and a new GNSS receiver adding Galileo, QZSS support. 3.0 also increases PTP scalability to 60 clients and adds IPv6 support for Management. [More Information](#)

### SSU 2000 7.3 Release Available July 1, 2019

The SSU 2000 has a new Miniaturized Atomic Clock (MAC) 2E Rubidium Clock Module 23413016-001-0 that is RoHS 3 compliant. It will replace the existing 2E Rubidium Clock module 23413016-000-0. Also, NTP client capability has been added to Comms RADIUS card, making it easy to set the system log times to align with a centralized NTP server to synchronize all element log timestamps. [More Release Information](#)

### Critical Infrastructure Depends on GPS

Learn how Microchip is protecting against GPS Rising Vulnerabilities. [Watch Tomorrow's World Today on the Science Channel](#)



**Did you know...Microsemi recently took part in this year's Multi-Vendor Interoperability Tests at the 2019 European Advanced Test Center (EANTC) in Berlin.**

[Read about the Interoperability Test Here](#)



### TimePictra Release 10.9 Now Available

Be sure to update your TimePictra Synchronization Management System to the latest release 10.9. This new software release is available for download on our support site, and provides updates for the latest hardware system releases as well as key security enhancements. [my.microsemi.com](http://my.microsemi.com)  
[Read more about TimePictra today](#)

### Coming in July 2019 ~ BlueSky GNSS Firewall Release 1.5.1.

Major updates include: Support for Galileo and BlueSky Performance Monitoring updates.

