



NETSYNC^{PLUS}® OFFICETIME™ -21 SERIES

NEW!



POWERFUL NEBS-COMPLIANT SYNC REFERENCE SOURCE

Low-Cost Stratum 1 Network Synchronization Solutions
For Advanced Core/Edge/Access Offices

- ✓ **Stratum 1 Source:** 1x GPS^{Plus}™ or Antenna^{Less}™ CDMA^{Plus}™ (optional)
- ✓ **Input:** 2x DS1/E1 with SSM (optional)
- ✓ **Retiming:** 2x DS1/E1 (optional)
- ✓ **Performance:** Stratum 1 for 2 weeks during Holdover with Rubidium^{Plus}™ Clock
- ✓ **Output:** 10x DS1/E1 with SSM and 1x NTP TOD
- ✓ **Communications:** 1x Ethernet, 2x EIA-232
- ✓ **Management:** TL1 or Interactive ASCII Command Set



Rooftop or Window-Mounted
GPS^{Plus}™ Antenna

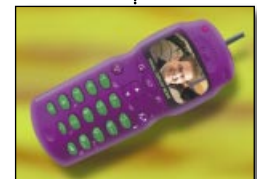


Clock Holdover
Distributor



Antenna^{Less}™
CDMA^{Plus}™

*The Best Investment Today
for Delivering Superior Telecom Services!*





LOW-COST CORE/EDGE/ACCESS OFFICE SYNCHRONIZATION SOLUTIONS



NEW NETSYNC^{PLUS} OFFICETIME SERIES

The OfficeTimeTM-21 is a new series of powerful, low-cost Stratum 1 GPS or CDMA primary reference source. Designed in a NEBS compliant package, it utilizes the latest hardware and software integration technologies. It's used for telecom and enterprise operators to generate superior synchronization signals for advanced network services.

KEY OFFICETIME-21 BENEFITS

Solution
✓ Low-cost Stratum 1 timing source ✓ Low-cost clock holdover distributor ✓ Compact NEBS-compliant unit
Architecture
✓ Intelligent software ✓ Direct Digital Syntheses (DDS) technology for calibration-free clock operation ✓ SmartHoldover^{PLUS}™ if GPS/CDMA/input reference fails
Input (optional)
✓ 2x DS1 or E1 (SSM) ✓ Input retiming capability (user settable)
Stratum 1 (optional)
✓ 1 x GPS^{PLUS}™ (rooftop or window-mounted antenna) or Antenna^{LESS}™ CDMA^{PLUS}™
Stratum 2E/3E SynClock
✓ 1x Rubidium^{PLUS}™ or Quartz^{PLUS}™ clock
Output
✓ 10x DS1/E1 (SSM) ✓ 1x NTP TOD (GPS/CDMA required)
Communications/Management
✓ 1x Ethernet port (10 Base-T) ✓ TL1 command set ✓ Interactive ASCII command set
Standards
✓ Compliance with the latest and evolving industry standards

POWERFUL NETSYNC^{PLUS} ARCHITECTURE

The OfficeTimeTM-21 architecture is designed with intelligent software for superior performance, reliability and flexibility. Remote software upgrades and user settable features are fully supported.

INTELLIGENT NETSYNC^{PLUS} FUNCTIONALITY

The OfficeTimeTM-21 supports the management of critical, major, and minor alarms. The alarm severity is user settable, and up to 450 time-tagged events can be stored. Powerful management is enabled through the communication interface.



Input^{PLUS}

The OfficeTime optionally accepts up to 2 input references of the following signal:

- DS1 or E1

Input signals are automatically passed through in case of internal clock failure. They fully support SSM for provisioning self-healing networks.



Retiming^{PLUS}

The OfficeTime is optionally user settable through software to retime up to 2 input references of the following signal:

- DS1 or E1



Stratum 1 GPS^{PLUS}™/CDMA^{PLUS}™

The OfficeTime is optionally configurable with 1 of the following Stratum 1 source:

- GPS^{PLUS}™ or an Antenna^{LESS}™ CDMA^{PLUS}™

The GPS is available with a rooftop or window-mounted antenna.



Stratum 2E/3E SynClock^{PLUS}™

The OfficeTime has a powerful SynClock^{PLUS}™. A selection of clock technologies is available to meet specific Stratum 2E/3E holdover requirements:

- Enhanced Quartz^{PLUS}™
- Enhanced Rubidium^{PLUS}™



SmartHoldover^{PLUS}™

The OfficeTime uses software-enhanced input references if the GPS/CDMA reference fails.

If both the GPS/CDMA and the input references fail, the OfficeTime's powerful software enhances output performance beyond the internal clock's holdover stability.



Output^{PLUS}

The OfficeTime provides 10 outputs configurable as follows:

- 10x DS1 or E1

Output signals fully support SSM for provisioning self-healing networks.

It also provides TOD (Time-Of-Day) through the NTP (Network Time Protocol) interface. NTP is supported through the GPS or CDMA engine.



Comm^{PLUS}/Mgmt^{PLUS}

The OfficeTime enables powerful communications capability for network management and craft personnel. The following interfaces are supported:

- 2x EIA-232 ports
- 1x Ethernet port (10 Base-T)
- TL1 command set
- Interactive ASCII command set

INDUSTRY STANDARDS COMPLIANCE

The OfficeTimeTM-21 is designed to meet the latest and evolving industry standards, including ITU-T, ETS, EN, EIA, ANSI, NEBS, and Telcordia/Bellcore.

NETSYNC^{PLUS} SERVICE FAMILY

Extended NetSync services are provided to ensure our customers' success. Service programs include:

- Local 24-hour/day, 7-day/week support (phone, fax, email, web, and technician)
- Local inventory support
- NetSync design & planning
- NetSync installation
- NetSync commissioning & testing through customer acceptance
- NetSync maintenance

ONLINE DATA SUPPORT

Visit our web site today at **www.datum.com** for the latest information, including:

- NetSync application notes
- NetSync training
- NetSync seminar
- NetSync resources
- Q&A support
- Local and international NetSync experts
- Tech support and more

