



NETSYNC^{PLUS}® CESIUM PRS-45e

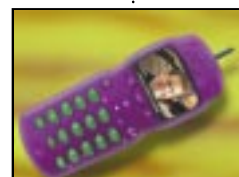
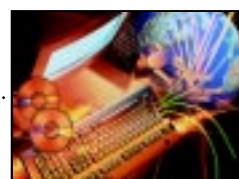
NEW!



AUTONOMOUS ETSI-COMPLIANT PRIMARY REFERENCE SOURCE

Affordable ITU-T G.811 Network Synchronization Solutions
For Advanced Core/Metro Network Offices

- ✓ **Technology:** Latest Cesium III Technology
- ✓ **Source:** Autonomous & Alternative Solution to GPS
- ✓ **AntennaLess™:** No Rooftop/Wall Mounted GPS Antenna/Installation Needed
- ✓ **Operation:** Maintenance-Free (up to 12-year warranty on Cesium tube)
- ✓ **Setup:** Plug & Play in < 45 Minutes
- ✓ **Outputs:** DS1, E1, 2048 kHz G.703/13, 10 MHz



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



AFFORDABLE CORE/METRO OFFICE SYNCHRONIZATION SOLUTIONS



NETSYNC^{PLUS} CESIUM SOURCE

The PRS-45e is an autonomous, affordable Primary Reference Source based on the latest Cesium III technology from Datum. It's designed for telecom network operators to generate superior and highly reliable G.811 synchronization signals for advanced network services.

PLUG & PLAY IN < 45 MINUTES

The PRS-45e's architecture uses the latest digital technology to provide superior performance and maintenance-free operation. The PRS-45e is extremely easy to install and is fully operational in less than 45 minutes. Its plug & play architecture provides highly reliable operation over the lifetime of the system.

KEY PRS-45e BENEFITS

Solution
✓ Affordable ✓ Alternative to GPS source ✓ No rooftop/wall mounted GPS antenna & installation needed
Architecture
✓ Intelligent & robust ✓ ETSI compliant package ✓ Maintenance-free operation ✓ Plug & play in <45 minutes
Output
✓ 2x user selectable outputs ✓ DS1 or E1 (or 1 of each) ✓ 2048 kHz G.703/13 ✓ Sync Status Messaging (SSM) on DS1 or E1 for self-healing networks ✓ 1 x 10 MHz (sine)
Warranty
✓ Up to 12-year warranty on Cesium tube ✓ Standard 2-year warranty on electronics
Communication
✓ 1x EIA-232 port ✓ Relay contacts (Alarms) ✓ Visual LED (Lock, Power, Alarm)
Standards
✓ Compliant with the latest ANSI, Telcordia, ETSI, ITU-T, NEBS, and AS/CE standards

TRUE AUTONOMOUS G.811 SOURCE

The PRS-45e offers a unique price/value ratio over GPS solutions. Unlike GPS Primary Reference Receivers, the PRS-45e requires no rooftop or wall mounted antenna and related cable installation, especially for sites where roof/wall accesses are denied, costly or difficult. Typically, external antennas are the weakest link in system reliability. Also, no maintenance is required to operate the PRS-45e. It's totally independent of environmental conditions such as weather, human cabling errors, GPS jamming devices and satellite line of sight.

CORE/METRO NETWORK APPLICATIONS

The PRS-45e is typically used to synchronize core/metro network offices, which are equipped with TSG/SSU recovery clocks – also known as BITS concept clocks.

The deployment of PRS-45e sources across the network provides the following benefits:

- Flattens the sync distribution hierarchy
- Lowers the overall OAM&P (Operation, Administration, Maintenance & Provisioning) costs
- Reduces the number of network recovery clocks (TSG/SSU) operating in tandem
- Minimizes pointer adjustments caused by "frequency errors" in the SONET/SDH payload
- Prevents up-stream network clock errors to propagate across the network
- Enhances overall network performance as TSG/SSU's sync rearrangements due to clock failures are minimized through sync status messaging (SSM)
- Provides total control of your network synchronization source

STANDARDS COMPLIANCE

The PRS-45e is designed to meet the latest and evolving industry standards, including ITU-T, ETSI, ANSI, Telcordia, NEBS, and CE/AS.

NETSYNCARESM PROFESSIONAL SERVICES

Armed with over 30 years of experience in NetSync solutions, our NetSyncCare Professional Services include:

- Site survey
- Planning
- Supply & installation, including testing & customer acceptance
- Training
- On-demand services such as sync audit, troubleshooting, project management and maintenance

Local assistance such as technical support and spare parts are also available to ensure customers' success through Datum's International Offices in Asia, China, Europe, Latin America and South Africa.

ONLINE 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

