



# US3G

## Synchronization Supply Unit

### Product Overview

The US3G is a smart Synchronization Supply Unit (SSU) designed to satisfy Telecom operators in their multiple synchronisation needs (both wireline & wireless and at multiple network levels : Stratum 1, 2, 2E etc.) and to help them to build a reliable network at the lowest cost. The main applications are :

- ◆ PRC : Primary Reference Clock for large and small offices (SDH, PDH & ATM Network elements)
- ◆ SSU for wireline & wireless central, transit and local offices (G.812 T or L for SDH, PDH & ATM Network elements)
- ◆ Low cost GPS-based PRC level 1 timing delivery for Mobile Networks.

### Which solution ?

- ◆ Best price – Performance ratio solution
- ◆ Modular, flexible and redundant unit
- ◆ Smart unit with distributed CPU-based cards
- ◆ Hot swappable cards (slow-start function)
- ◆ Low maintenance cost
- ◆ High reliability





### Reference Inputs

- ◆ Up to 6 input references
- ◆ E1 or 2.048 kHz (G.703/6 & G.704 or G.703/10)
- ◆ Synchronization quality monitoring (validation)
- ◆ Embedded low cost GPS support (for G.811 PRC option)
- ◆ Option : Synchronization Status Message on E1

### Oscillators

- ◆ G.812 Transit & Local; Exceed ITU & ETSI latest industry standards
- ◆ High performance Rubidium clocks (single/dual)
- ◆ High performance Quartz clocks (single/dual)
- ◆ False frequency measurements and alarms management

### Outputs

- ◆ Network Elements Frequency feedback monitoring (return control)
- ◆ E1 or 2.048 kHz (G.703/6 & G.704 or G.703/10)
- ◆ Amplifiers redundancy (2+1) and hitless switching
- ◆ Up to 64 outputs (easily upgradable to 1280 outputs with the UADRS unit)
- ◆ Option : Synchronization Status Message on E1
- ◆ Retimed E1 output
- ◆ Low Phase Noise 5-10 MHz outputs (satellite dedicated applications)

### Management

- ◆ Friendly visual interface through Synoptic panel
- ◆ Local Unit Management V24 port
- ◆ Remote SNMP management based interface (LYNX RSNM)
- ◆ Alarm relays interface