



The Connor-Winfield Corporation

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Connor Winfield's STC3500 – A Single Chip Solution for a New Generation of Stratum 3 Synch Applications

As the pioneer in synchronization modules, Connor Winfield recently introduced their latest generation of synch modules - the SM3, which is the smallest synch module in the industry. Now, Connor-Winfield has taken this one step further and is offering design engineers the option of purchasing the STC3500 as a stand-alone chip.

The STC3500 is an integrated single chip solution for the synchronous timing source in SONET/SDH network elements. It is the same engine as in the SM3 module and is fully compliant with Telcordia GR-1244-CORE, GR-253, ITU-T G.812 Type IV and ITU-T-G813 Option 1 when used with applicable oscillator.

The STC3500 can operate in Free Run, locked or Hold Over mode, and supports Master/Slave operation with continuous input reference quality monitoring.

Features of the new STC3500 include:

- Great flexibility for Design Engineers
- Complies with Telcordia GR-1244-CORE, GR-253, and ITU-T G.812/G.813
- Supports Master/Slave operation
- Supports Free Run, Locked, and Hold Over modes
- Accepts 8 auto frequency detect reference inputs from 8 kHz to 77.76 MHz and one 8 kHz cross reference
- Continuous input reference quality monitoring
- Input reference frequency can be manually selected or automatically detected
- Four output signals: one selectable up to 77.76 MHz, one fixed at 8 kHz, one multi-frame sync fixed at 2 kHz, and 1.544 MHz or 2.048 MHz VBITS output
- Output phase is adjustable in slave mode
- Frequency ramp control during reference switching
- Hit-less reference switching
- Less than .37 ppm when used with Connor-Winfield OCXO Oscillators
- Configurable bandwidth filter .08 to 1.4 Hz
- Supports SPI and 8-bit parallel bus interface
- IEEE 1149.1 JTAG boundary scan
- Available in FBGA144 package

Prototype quantities are available now.

Production quantities priced at \$98 @ 1000 pieces with 4-6 Weeks Lead-Time.

For more information contact Connor-Winfield Corp., Telephone: 630.851.4722

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