

For Immediate Release

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## Connor-Winfield introduces a compact integrated GPS timing receiver for WiMax applications

**Aurora, IL** – Connor-Winfield's TiMax Wi125 is a small OEM surface mount GPS module specifically designed for use in synchronization and timing in WiMax applications. The Wi125 module is the latest family member of Connor-Winfield's Global Timing Solutions Group that offers a wide variety of GPS based timing and frequency products specifically designed for standard or high precision timing and synchronization applications.

This compact, WiMax compatible module has an on-board programmable NCO oscillator that outputs a synthesized frequency up to 30 MHz that is steered by a GPS receiver. The self-survey mode of operation allows the receiver to enter a position hold mode allowing accurate timing to be continued with only one satellite being tracked.

Additionally, the TiMax Wi125 has phase alignment of 1 PPS/10 MHz with a very stable holdover. The 1 PPS/10 MHz outputs maintain phase alignment with holdover being base only on the local oscillator, dismissing spurious GPS measurements during reacquisition. When the receiver regains GPS lock after a period of holdover, the 1PPS and 10 MHz outputs maintain phase alignment and are offset in frequency at the maximum rate of 100 ppb until the 1 PPS aligns with that of the GPS solution. This controlled recovery from holdover allows for uninterrupted operation of the WiMax base station.

The Wi125 has a highly accurate output frequency, which can achieve full PRC MTIE performance. Additionally it can track satellites and provide GPS synchronization in weak signal areas including indoor applications, reducing the need for high antenna placement.

The Wi125 is an exceptionally small surface mount package with a highly integrated architecture that requires a minimum of external components allowing easy integration into host systems.

### Special Features Include:

- 1PPS/ 10 MHz Phase alignment
- Stable Holdover
- Holdover Recovery
- 1 PPS & NCO Frequency Output
- GPS/UTC time/scale synchronization to 25 ns RMS
- Stable proven design with long term availability and multi-year support
- 12 channel hardware correlator processor design
- OEM SM footprint 25 x 27 mm
- Automatic entry into holdover
- Loss-of-lock and entry-into-holdover indication

Price: \$40.00 in Volume

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