

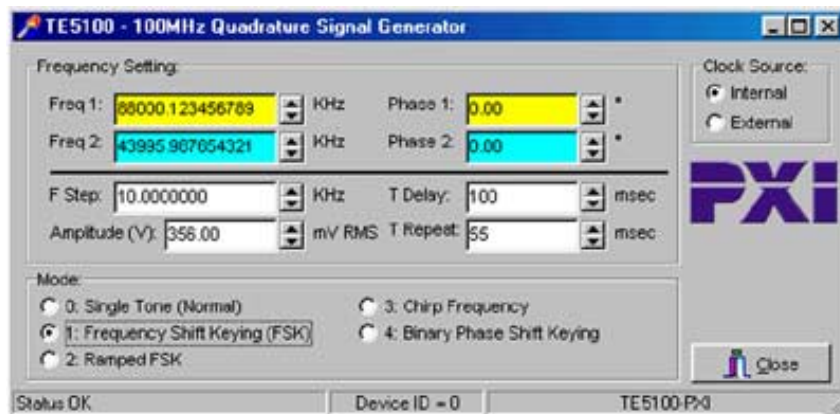


# 100MHz QUADRATURE SIGNAL GENERATOR

- 10KHz to 100MHz
- 1 $\mu$ Hz steps
- 1ppm accuracy and stability
- Sine and TTL outputs
- Multiple cards synchronization



The TE5100 is a 100MHz Direct Digital Synthesized Signal Generator in a 3U, CompactPCI format. The TE5100 generates Sine and AC/MOS/TTL output signals simultaneously up to 100MHz in 1 $\mu$ Hz steps. Sweep, FSK, Chirp and Single Tone are generated on board. The virtual panel allows control up to 100MHz of all parameters. The TE5100 is equipped with a  $\pm$ 1ppm on-board TCXO clock and can accept an external clock source.



TE5100

# SPECIFICATIONS

**TEAM**  
**SOLUTIONS, INC**

Established in 1999, TEAM's mission is to provide its customers with state-of-the-art, PC-Based, Test & Measurement instrumentation. TEAM's products are offered in ISA, PCI, External (Parallel/USB driven), Compact PCI and PXI configuration.

## **Outputs**

Type Sine and AC/MOS/TTL simultaneously  
Impedance 50Ω  
Range 10KHz to 100MHz in 1μHz steps

## **Amplitude**

Sine App +7dBm (0.5V) into 50Ω load.  
Programmable from 0% to 99% of full scale ( 12 bit internal control )  
TTL VOL<0.5, VOH>2.5 into a series terminator  
10pF load Tr,f<5nSec. Duty Factor 45% to 55%. 50Ω

Flatness ±3dB from 10KHz to 100MHz  
Accuracy <±1ppm at 10-40°C  
Stability ±1ppm per year, 18-28°C

## **External Clock In**

Level 0.1–2.5Vrms Sine or Square Wave. 50Ω  
Frequency 5MHz to 75MHz.

## **Spectral Purity**

(Typ. 50Ω load, internal clock)  
Phase noise <-140dBc, 10KHz offset, 5MHz out  
Spurious <-70dBc below 10MHz ( tpy. 200MHz span)  
<-65dBc below 40MHz  
<-50dBc below 100MHz  
Harmonic <-65dBc below 1MHz  
<-60dBc below 10MHz  
<-50dBc below 20MHz  
<-40dBc below 50MHz  
<-35dBc below 100MHz

## **Power**

Requirements 4.75 to 5.25V @<1A and -5.25 to -4.75 @<100mA

Connectors BNC

## **Our Product Line Includes:**

- **Up to 18 slots, Industrial PC & Compact PCI/PXI enclosures**
- **Programmable Power Supplies**
- **Switching, Scanning & Multiplexing (DC to 20GHz)**
- **5.5 & 6.5 digit DMMs**
- **100MHz Digital Storage Oscilloscope**
- **100MHz Spectrum Analyzer**
- **50 & 100 MS/Sec. Arbitrary Waveform Generator**
- **10KHz to 100MHz Signal Source**
- **200 MHz, 16 Channels, Logic Analyzer**
- **50 MHz, Dynamic Digital I/O**
- **Prototypes & many more..**

For additional information call us at:

**949.348.7766**

or visit us on line at:

[www.team-solutions.com](http://www.team-solutions.com)