

KSI 9705

## Programmable High-Precision Frequency Synthesizer Industry Pack



**In Stock**

**Used and in Excellent Condition**

**Open Web Page**

<https://www.artisanng.com/70370-6>

All trademarks, brandnames, and brands appearing herein are the property of their respective owners.



Your **definitive** source  
for quality pre-owned  
equipment.

**Artisan Technology Group**

(217) 352-9330 | [sales@artisanng.com](mailto:sales@artisanng.com) | [artisanng.com](http://artisanng.com)

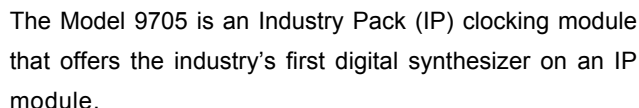
- Critical and expedited services
- In stock / Ready-to-ship

- We buy your excess, underutilized, and idle equipment
- Full-service, independent repair center

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

# IP Programmable High-Precision Frequency Synthesizer

## Features



For more sophisticated signal processing requirements, 100kHz dual-channel, 16-bit D/A for input or output is available.

- 0 to 42MHz TTL clock outputs
- 16 digital bi-directional TTL level I/O lines that can drive up to 10 TTL loads
- 2-channel, 100K sample per second Sigma-Delta D/A converter
- 1 digital frequency synthesizer with four TTL-level buffered outputs allows distribution to multiple systems
- 125MHz standard option of the high-frequency base oscillator
- FIFO allows clumps of data to be sent to the D/A, which frees up the software to deal with other functions
- Seven-level interrupt generator with programmable polarity selection
- Synthesizer with 32-bit phase update register
- D/A >85dB dynamic range
- D/A output voltage 3.5Vpp (optional 10 Vpp)
- Stability: 100ppm for 0–50 C
- Accuracy: 50ppm for –40–+85 C
- Jitter: < 300 ps

The block diagram illustrates the internal architecture of the Model 9705. It features a central IP Bus connected to several key components:

- 16-bit Bi-directional I/O Lines:** Connected to the IP Bus and external ports PA and PB.
- 2-channel 100 kSample D/A:** Receives data from the IP Bus and outputs two channels, CH0 and CH1.
- Control Registers:** Connected to the IP Bus and the Digital Synthesizer.
- 0 to 42 MHz Digital Synthesizer AD9850:** Receives control signals from the registers and provides a clock signal to the Buffer.
- Buffer:** Receives the output from the Digital Synthesizer and provides multiple output lines.

Model 9705-001  
-No D/A

Model 9705-004  
-Single, high-power clock  
output

**KSI**  
A Division of DSPCon, Inc.

**www.ksi-corporation.com**

# Artisan Technology Group is an independent supplier of quality pre-owned equipment

## Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

## We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

## Learn more!

Visit us at [artisanTG.com](https://www.artisanTG.com) for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

**We're here to make your life easier. How can we help you today?**

(217) 352-9330 | [sales@artisanTG.com](mailto:sales@artisanTG.com) | [artisanTG.com](https://www.artisanTG.com)

