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NOVATECH

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For Immediate Release

120MHz Agile Synthesizer Module has 48-bit frequency and 14-bit phase control with 600ns switching time.

NOVATECH INSTRUMENTS, INC. is pleased to introduce the Model DDS8p, a frequency and phase agile signal generator that outputs Sine, Cosine and TTL signals simultaneously from 100Hz to 120MHz in 1 μ Hz steps. The fast parallel binary interface allows the frequency and phase to be switched in 600ns.

The DDS8p is ideal for applications like radar, material test and acoustic imaging where the user needs to switch settings rapidly to generate frequency or phase sweeps, CW pulses or complicated phase and frequency profiles. The DDS8p uses an internal ± 1 ppm temperature compensated crystal oscillator to run the DDS circuitry. The DDS8p can accept an external clock input up to 300MHz when the user wants to synchronize his system from a master clock source.

The DDS8p features output signals with a typical phase noise specification of -140dBc at 10kHz offset and 5MHz output. The 1 μ Hz resolution allows the DDS8p to be used in frequency standards and other critical applications where precise frequency control is required. At 10MHz output, this translates into a tuning accuracy of $\pm 1 \times 10^{-13}$. Phase has 14-bits of control, translating to a resolution of 0.022 degrees.

Requiring a footprint of only 13cm by 9.1cm, the DDS8p can be integrated into programmable test stations and other applications requiring multiple and frequency agile outputs.

Delivery of the Model DDS8p is stock to two weeks ARO and the list price is \$975. OEM discounts and specials are available.

See the complete data sheet and manual on our web site: <http://www.novatech-instr.com/>

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enclosed: DDS8p Color Photo, Data Sheet, and Price List.

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