

Scientech 4064S 10MHz AM-FM Modulation Function - Pulse Generator with 50MHz Frequency Counter are based on Direct Digital Synthesis technique to create stable and accurate output waveforms. They also offer linear ramp and square wave and pulse with fast rise/fall time. Generator also having built in Arbitrary waveforms to be used in various applications like Biomedical, Audio, Mathematics, etc. Front-panel operation is very user friendly. Internal Modulation makes it easy to modulate waveforms without the need of any separate modulation source. Linear sweep is also built in, with adjustable start frequency, stop frequency and sweep rate from 1ms to 100 sec. Scientech 4064S Function Generators are ideal partner for your laboratories.

Applications

- Analog & Digital Communications
- Instrumentation and Control
- Embedded Systems
- Analog & Digital Circuit Design
- Education & Training
- Audio Circuit Design
- Bio-medical

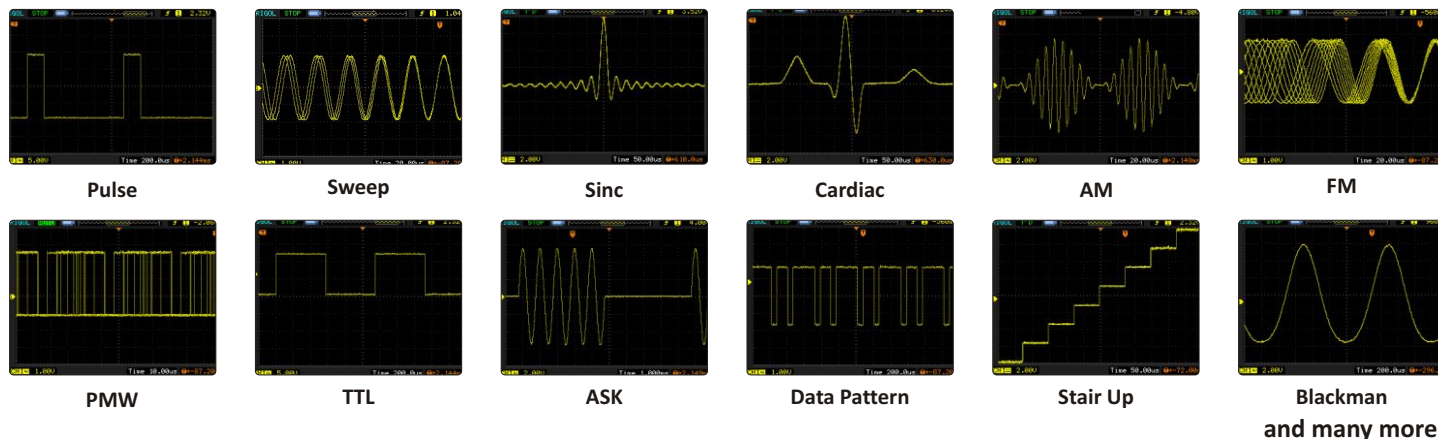
Features

- DDS (Direct Digital Synthesis) Technique
- Frequency Resolution 1mHz
- Waveforms - Sine, Square, Triangle, Ramp, Pulse, TTL, Sinc, Cardiac, Blackman, Stair Up, Stair Down, Exponential Rise, Exponential Fall, Voice, Noise, Sine Vertical, Alternate Attenuation, Alternate Amplification, Round PM, Absolute Sine
- 50 MHz Frequency Counter
- Low Distortion
- 16 Bit Pattern Generator & TTL
- 20Vpp Output (O.C.)
- Ethernet (optional)
- Internal Modulations
- TFT Color LCD Display
- Amplitude Readout
- Rise/Fall time ≤ 20 ns
- High Accuracy
- 60dB Attenuation
- DCOffset

Technical Specifications

Operating Modes	: Sine, Square, Triangle, Ramp, Pulse, Cardiac, Sinc, Noise, Exponential Rise, Exponential Fall, Blackman, Voice Negative Ramp, TTL, Sine Vertical, Alternate Attenuation, Alternate Amplification, Round PM, Absolute Sine
Frequency range (Sine Wave)	: 1mHz – 10MHz
Frequency range (other waveforms)	: 1mHz – 3MHz (Others)
Frequency Resolution	: 1mHz
Frequency Display Accuracy	: $\pm 0.2\%$
Sine wave Distortion	: $<0.5\%$ (20Hz-499Hz), $<0.3\%$ (500Hz-20KHz)
Rise/Fall Time	: $\leq 20\text{ns}$
Jitter	: 5nS (Square) & 10nS (Ramp & Pulse)
Triangle Non-Linearity	: $\leq 1\%$ (typical)
Pulse Duty Cycle	: 5% -95% Digitally Controlled
Output	: 20Vpp O.C., 10Vpp into 50 Ω
Output Impedance	: 50 Ω
Amplitude Readout	: $+ 5\% \pm 1$ digit
Attenuation	: 20dB/40dB Fixed & 20dB Variable (60dB Max.)
Level Flatness	: 0.5dB (3MHz)
DC Offset	: $\pm 5\text{V}$ adjustment
Internal Sweep	: 1ms-100s
Internal Modulation	: FM, AM, PWM, BURST/ASK & FSK Modulation
16 Bit Pattern Generator output	
Frequency Counter	: 50MHz (External)
Sensitivity	: 0.5Vrms
Input Impedance	: 1M Ω
Max. Input Voltage	: 200V (DC + AC Peak)
Mains Supply	: 230V AC $\pm 10\%$, 50Hz
Power Consumption	: 20VA (approximately)
Dimension (mm)	: W 212 X H114 x D283
Weight	: 2Kgs (approximately)
Operating Conditions	: 0-40 $^{\circ}\text{C}$, 85%RH
Included Accessories	: BNC to BNC cable & Power cord - 1 no. (each)
Ethernet Interface (optional)	: User can remotely control these Instruments

Built in Waveforms



Subject to Change

