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INDUSTRIAL PRODUCT DATASHEET

Mini DDS Function Generator

The Mini DDS Function Generator is a low-cost, easy-to-use FG085 waveform generator for electronics hobbyists and students, offering continuous sine, square, triangle, ramp, and staircase outputs up to 200 kHz.

SKU	UPDATED	PRICE
109990019	2024-08-09 02:12:44	$69.50(Excl. VAT)



Overview



The Mini DDS Function Generator (FG085) is a low-cost, versatile function generator that produces sine, square, triangle, ramp, and staircase waveforms from 0 to 200 kHz with 0–10 V peak-to-peak amplitude and -5 V to +5 V offset. It offers digit-based and rotary encoder adjustments, stores settings after power down, and can be used as an adjustable DC voltage source, making it an ideal test/experiment tool for electronics hobbyists and students.

Key Features

This is a low cost yet versatile function generator capable of producing many different waveforms. As an easy-to-use tool operation of FG085 is very simple and straightforward. It is an ideal test/experiment tool for electronics hobbyists and students.

Specification

- Frequency range: 0 - 200KHz (Sine)
- Frequency resolution: 1Hz
- Period resolution: 1ms
- Amplitude range: 0 - 10V peak-to-peak
- Offset range: -5V - +5V
- Memory depth: 256 bytes
- Sample rate: 2.5Msps
- Output impedance: 50 ohm
- Power supply voltage: DC 15V
- Current consumption: < 150mA (without loading)
- Dimension: 155 X 55 X 30 mm
- Net weight: 100 gram

Features implemented as of current firmware

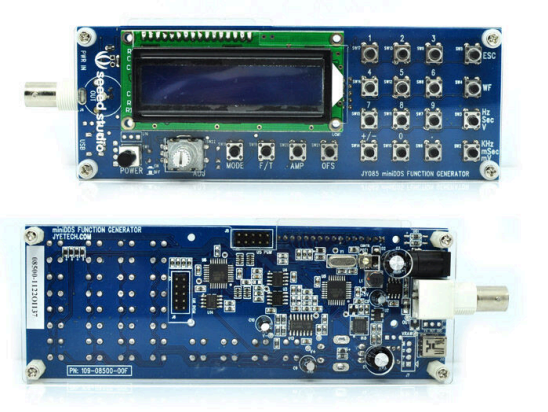
- Generating continuous Sine, Square, Triangle, Ramp (up and down), and Staircase (up and down) signals
- Generating servo test/control signals with user defined pulse width, amplitude, and cycle [NEW]
- Setting of frequency (or period), amplitude, and offset is done with digits - quick and straightforward
- Frequency (period), amplitude, and offset can be incrementally adjusted up and down with rotary encoder
- Settings are memorized after power down.
- Can be used as an adjustable DC voltage source by setting amplitude to 0

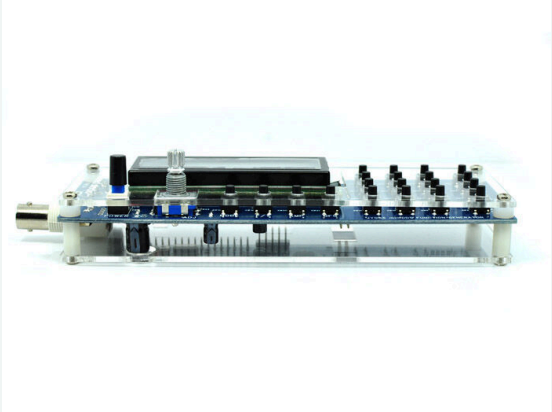
Features to be implemented (hardware support already in place)

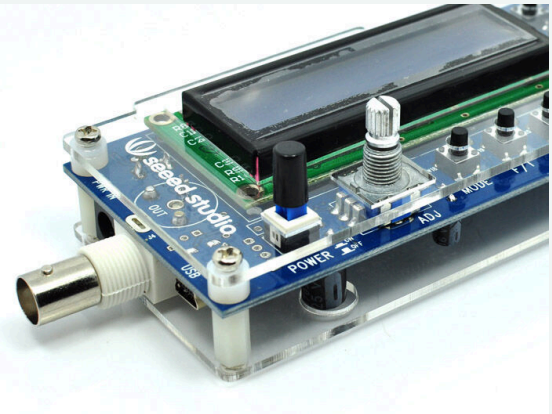
- Generating arbitrary signals
- Generating special test signals NTSC/PAL video synchronous signal, and more
- Generating sweeping signal with continuous phase
- USB connection for waveform download and control
- Programmable frequency, amplitude, and offset
- Synchrous output
- Burst output at trig

Manual and Resources can be downloaded here.

Product Gallery







Compliance & Logistics

HSCODE

Resource Links

- https://www.seeedstudio.com/Mini-DDS-Function-Generator-p-915.html

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