

# JDS-6600

## DDS Function Generator

15MHz Digital Control Dual-channel DDS Function Signal Generator/frequency meter



- 2.4" Color TFT display
- Precise stable, low distortion output
- Dual channel output
- Storage Feature
- Counter function
- USB interface
- A rotary waveform editing function

### Introduction

This is a dual-channel high precision multifunctional signal generator. It adopts large scale of FPGA integrated circuits, high-speed MCU microprocessor and high precision oscillator, which make the signals highly stable. It contains two independent dual-channel DDS signal and TTL level output and is capable of generating sine/triangle/square/sawtooth/pulse wave, white noise, etc. This is a multifunction instrument capable of generating signal, scanning waveform and measuring various electrical parameters. With frequency range of upto 15MHz, it has built-in functions including amplitude modulation and frequency sweep function etc. Output signal amplitude and frequency are continuously displayed. It's a great testing/ measuring instrument for electronics engineers, electronic laboratory, teaching and research.

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### Specifications

#### Frequency Characteristics

Sine frequency range	: 15MHz
Square/Triangle frequency range	: 15MHz
Pulse frequency range	: 6MHz
Square rise time	: 25nS

#### Waveform Characteristics

Waveform	: Sine, Square, Triangle, Pulse), Partial Sine, DC level, Half-wave, Full-Wave, Positive Ramp, Negative Ramp, and many other user defined waveforms
Waveform length	: 2048 points
Waveform sampling rate	: 266 MSamples/s
Waveform vertical resolution	: 14 bits

#### External Measurement Function

Frequency meter function	: 1Hz-100MHz
Counter function	: 0-4294967295 counts
Input signal voltage range	: 2Vpp-20Vpp
Pulse width measurement	: 0.01us (resolution),
Period measurement	: 20s (max measuring time)

#### General technical parameters

Display	: 2.4 inch TFT color LCD
Interface	: USB to serial interface
Communication speed	: 115200bps
Communication protocol	: Command-line mode, Open protocol
Power supply voltage	: 5V±0.5V DC
Manufacturing process	: Surface-mount technology, FPGA design, high reliability, long service life

#### Environmental conditions

Temperature	: 0-40C, Humidity:<80%
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