# DDS Function (Arbitrary) Generator

MG 1025

**Features :**

- Two same function output
- Using Direct Digital Synthesis (DDS) Technology
- Upto 25MHz frequency range for main waveforms
- High accuracy frequency counter
- Arbitrary Setting of start and stop of frequency sweep output
- 15 Different type output waveform
- 16 x 2 LCD display
- PC interface using Software
- USB-Host / Device

**Technical Specification :**

**CH1, CH2**

- Output Frequency
- Sine wave : 0Hz~25MHz
- Square wave : 0Hz~1MHz
- Triangle wave : 0Hz~1MHz
- Sawtooth : 0Hz~1MHz
- Arbitrary Waveform : 0Hz~1MHz
- TTLDigital signal wave : 0Hz~1MHz

- No. of Channels : 2
- Output wave : Sine, Square, Pulse, Ramp, Noise, Arb, TTL Digital signal waveform
- Wavelength : 1024 bit
- Sampling Rate : 200MSa/s
- Vertical Resolution : 8 Bits
- Frequency Min Resolution : 10mHz
- Frequency Error : 10ppm
- Frequency Stability : ±1x10-6
- Output Impedance : 50 Ohm +10%
- Output voltage Range : 0.5Vp-p ~20Vp-p

**Square Waveform**

- Square wave : <20ns
- Overshoot : <20%
- Dusty Cycle : 0% ~ 99.9%

**TTL**

Square wave : <20ns
Low Level : <0.3V
High Level : 1V~7.5V

**Arbitrary**

- Quantity : 16 Group
- Memorial Depth / Group : 1KB/16 Group

**Sweep**

- Sweep Mode : Linear Scanning , logarithm Sweep
- Sweep Time : 1S ~ 500S
- Sweep Range : According to the Sweep Frequency

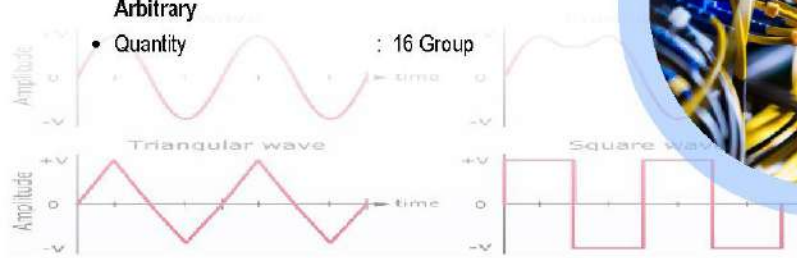
**External Measurement**

- Freq. Measurement Range : Gate Time = 10S 0.1Hz-60MHz
  : Gate Time = 1S 1Hz-60MHz
  : Gate Time = 0.1S 10Hz-60MHz
  : Gate Time = 0.01S 100Hz-60MHz
- Input voltage Range : 0.5Vp-p ~20Vp-p
- Counter Range : 0~4294967295
- Positive pulse width and negative pulse width : 10ns Resolution, measure max 10s
- Duty cycle : 0.1% Resolution,
- Measuring range : 30%~75%
- Information source selection : 1 Ext. In Input ( AC Signal), 2 TTL_IN input ( digital Signal)

**Memory**

- 15 Location for Arbitrary Waveform

- Interface : USB Host, USB Device
- Power : DC 5V Power Supply



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