

DG1000 Series Function/Arbitrary Waveform Generators

20 MHz maximum output frequency
 100 MSa/s maximum sample rate
 200 MHz frequency counter



Product Dimensions: Width×Height×Depth = 232mm×108mm×288mm weight: 2.7 kg

► Application Areas

- Simulation of Analog Sensor and Real World Signals
- Education and Training
- In-circuit Functional Test
- Service and Repair

► Features and Benefits

1. Advanced Direct Digital Synthesis (DDS) Technology, 2 analog channels output, 20 MHz maximum output frequency
2. 100 MSa/s maximum sample rate, 14 bits vertical resolution, 4 kpts Waveform Length
3. Built-in high precise counter, the frequency is up to 200 MHz
4. Connectivity: USB Device and USB Host
5. Connect to RIGOL DS1000 series digital oscilloscopes directly

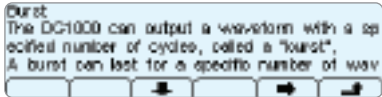
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|--------------------------|----------------------|--------|
| Model | DG1022 | DG1012 |
| Maximum Output Frequency | 20 MHz | 15 MHz |
| Connectivity | USB Host, USB Device | |

► Specifications


| Model | DG1022 | DG1012 |
|---------------------------|--|----------------------|
| Standard Waveform | Sine, Square, Ramp, Pulse, White Noise and 48 kinds of built-in arbitrary function waveforms | |
| Frequency characteristics | | |
| Sine | 1 μ Hz ~ 20 MHz | 1 μ Hz ~ 15 MHz |
| Square | 1 μ Hz ~ 5 MHz | 1 μ Hz ~ 4 MHz |
| Pulse | 500 μ Hz ~ 3 MHz | 500 μ Hz ~ 2 MHz |
| Ramp | 1 μ Hz ~ 150 kHz | |
| White Noise | 5 MHz bandwidth (-3dB) | |
| Arbitrary Waveform | 1 μ Hz ~ 5 MHz | 1 μ Hz ~ 4 MHz |

| Channel | CH1 | CH2 |
|------------------------------------|--|--|
| Arbitrary Waveform Characteristics | | |
| Waveform Length | 2 pts ~ 4 kpts | 2 pts ~ 1 kpts |
| Amplitude Resolution | 14 bits | 10bits |
| Sample Rate | 100 MSa/s | |
| Amplitude Characteristics | | |
| Amplitude | 2 mVpp ~ 10 Vpp (into 50 Ω) 4 mVpp ~ 20 Vpp (into open circuit) | 2 mVpp ~ 3 Vpp (into 50 Ω) 4 mVpp ~ 6 Vpp (into open circuit) |
| Modulation characteristics (CH1) | | |
| Modulation Mode | AM, FM, PM, FSK-internal or external | |
| Frequency of Modulation Waveform | 2 mHz ~ 20 kHz (FSK 2mHz to 50kHz) | |
| Counter | | |
| Range | 100 mHz~200 MHz | |
| Output Mode | | |
| Burst (CH1) | Count (1 to 50,000 periods) Infinite, Gate | |
| Sweep (CH1) | Linear or Logarithmic | |
| Other Parameters | | |
| Connectivity | USB Host, USB Device | |
| Power Supply | AC: 100V-240V, 45Hz-440Hz, 40VA Max | |

► Intuitive User Interface



Built-in Help System
Easy access to Built-in help system by pressing and holding the key for 3 seconds



File System
Easy to Use file system supports USB Flash Memory and local file storage

► Optional Accessories



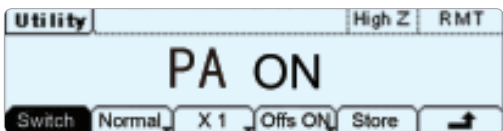
BNC Cable



50 Ω Impedance Adaptor



40 dB Attenuator



10W Power Amplifier PA1011

PA1011 Power Amplifier: 10W maximum power output, 1 MHz full power bandwidth, 50kΩ high input impedance. Adjustable amplifier gain (×1 or ×10), adjustable output polarity (normal or revert), adjustable output offset (-12V ~ +12 V). It has Seamless connectivity with DG1000 through USB. Easy to operate, integrates output protection circuit (Output over-current protection, temperature over-heats protection) ensure a stable reliable, safe work condition.