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# AG 1012F

## Dual-channel Arbitrary Waveform Generator

- + Advanced DDS technology, 10MHz frequency output
- + 125MS/s sample rate, and 1μHz frequency resolution
- + Vertical Resolution : 14 bits, up to 1M arb waveform length
- + Comprehensive waveform output : 5 basic waveforms, and 45 built-in arbitrary waveforms
- + Comprehensive modulation functions : AM, FM, PM, FSK, PWM, Sweep, and Burst
- + High-accuracy frequency counter integrated, supported range 100mHz - 200MHz
- + Supported SCPI

### + Performance Specifications

| Model               | AG1012F |
|---------------------|---------|
| Channel             | dual    |
| Frequency Output    | 10MHz   |
| Sample Rate         | 125MS/s |
| Vertical Resolution | 14 bits |

### Waveform

|                    |                                                                                                                                        |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Standard Waveform  | Sine, Square, Pulse, Ramp, and Noise                                                                                                   |
| Arbitrary Waveform | Exponential Rise, Exponential Fall, Sin(x)/x, Step Wave, and others, total 45 built-in waveforms, and user-defined arbitrar y waveform |

### Frequency (resolution 32 bits)

|        |                        |
|--------|------------------------|
| Sine   | 1μHz - 10MHz           |
| Square | 1μHz - 5MHz            |
| Pulse  | 1μHz - 5MHz            |
| Ramp   | 1μHz - 1MHz            |
| Noise  | 25MHz (-3dB) (typical) |
| Arb    | 1μHz - 10MHz           |

### Amplitude

|                            |                                                     |
|----------------------------|-----------------------------------------------------|
| Amplitude                  | 1mVpp - 10Vpp (50Ω), 1mVpp - 20Vpp (high impedance) |
| Resolution                 | 1mVpp or 14 bits                                    |
| DC Offset Range (AD+DC)    | ±5V (50Ω), ±10V (high impedance)                    |
| DC Offset Range Resolution | 1mV                                                 |

|                |               |
|----------------|---------------|
| Load Impedance | 50Ω (typical) |
| Model          | AG1012F       |

### Arbitrary Waveform

|                     |                 |
|---------------------|-----------------|
| Wave Length         | 2 pts to 8K pts |
| Sample Rate         | 125MS/s         |
| Vertical Resolution | 14 bits         |
| Non-volatile Memory | 26 waveforms    |

### Modulation

|                      |                                      |
|----------------------|--------------------------------------|
| Modulation Waveform  | AM, FM, PM, FSK, Sweep, and Burst    |
| Modulation Frequency | 2mHz to 20.00KHz (FSK 1μHz - 100KHz) |

### Cymometer

|                      |                                                    |
|----------------------|----------------------------------------------------|
| Function             | Frequency Period, +Width, -Width, +Duty, and -Duty |
| Frequency Range      | 100mHz ~ 200MHz                                    |
| Frequency Resolution | 6 digits/s                                         |

### Input / Output

|                         |                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Display                 | 4 inch (480 × 320 pixels) TFT LCD                                                                                             |
| Type                    | counter<br>external modulation input / output,<br>external trigger input / output,<br>external reference clock input / output |
| Communication Interface | USB host, USB device, RS232                                                                                                   |

### Mechanical

|                          |                      |
|--------------------------|----------------------|
| Dimension (W×H×D)        | 235 × 110 × 295 (mm) |
| Weight (without package) | 3.00 kg              |

Specifications subject to change without prior notice.

### + Application

design and debug      circuit function test      education & training

### + Accessories

The accessories subject to final delivery.



Power Cord



CD Rom



Manual



USB



Q9