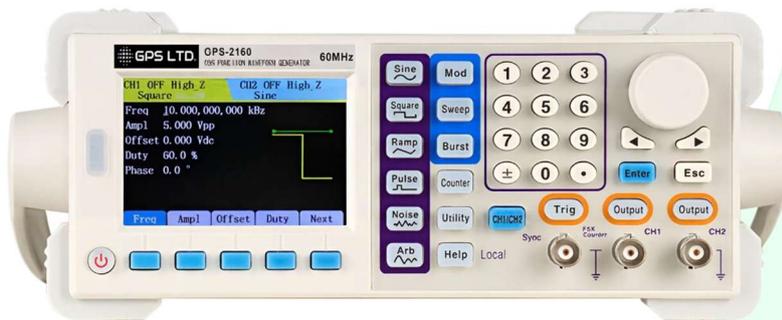


GPS-

# 2100 series

Every Signal. Perfectly Defined.



The GPS-21XX Series Function / Arbitrary Waveform Generators use precision DDS technology to deliver stable, high-purity signals for laboratory, educational, and production test applications. A bright 3.5-inch TFT display, 200 MSa/s sampling rate, and 13-bit vertical resolution ensure accurate waveform generation up to 60 MHz.

Dual channels provide independent or synchronized outputs with flexible main/auxiliary assignment. Built-in modulation modes (AM, FM, PM, ASK, FSK, PSK), plus sweep and burst functions, support a wide range of signal simulations. RS-232 and USB interfaces enable waveform editing and PC control, while the integrated 100 MHz frequency counter adds precise measurement capability.

Available in 15 MHz, 25 MHz, 40 MHz, and 60 MHz models, the GPS-21XX Series combines accuracy, versatility, and reliability in a compact, easy-to-operate design.

## Key Features

- Dual-channel DDS generator with up to 60 MHz output bandwidth
- 200 MSa/s sampling rate, 13-bit vertical resolution, 8 k memory depth
- 5 standard and 32 arbitrary built-in waveforms
- Independent or synchronized channel operation with switchable roles
- AM, FM, PM, ASK, FSK, PSK modulation (internal or external)
- Linear/logarithmic sweep and burst output modes
- High-precision 100 MHz frequency counter (32-bit)
- Adjustable pulse edges and duty cycle control
- USB and RS-232 connectivity with waveform editing software
- 3.5-inch TFT LCD with multilingual interface and file management

## Ideal for

- laboratories, education, R&D, and production testing

www.gpslimited.com/2100  
For all enquiries, Tel: +44 (0) 208 964 3600  
Email: info@gpslimited.com

## Technical Specifications

Model	GPS-2115	GPS-2125	GPS-2140	GPS-2160
Sine Frequency Range	1 $\mu$ Hz – 15 MHz	1 $\mu$ Hz – 25 MHz	1 $\mu$ Hz – 40 MHz	1 $\mu$ Hz – 60 MHz
Square Frequency Range	1 $\mu$ Hz – 15 MHz	1 $\mu$ Hz – 15 MHz	1 $\mu$ Hz – 15 MHz	1 $\mu$ Hz – 15 MHz
Triangle Frequency Range	1 $\mu$ Hz – 15 MHz	1 $\mu$ Hz – 15 MHz	1 $\mu$ Hz – 15 MHz	1 $\mu$ Hz – 15 MHz
Arbitrary Frequency Range	100 $\mu$ Hz – 6 MHz	100 $\mu$ Hz – 6 MHz	100 $\mu$ Hz – 6 MHz	100 $\mu$ Hz – 6 MHz
Sampling Rate	200 MSa/s	200 MSa/s	200 MSa/s	200 MSa/s
Vertical Resolution	13 bit	13 bit	13 bit	13 bit
Memory Depth	8 k points	8 k points	8 k points	8 k points
Amplitude Range	2 mVpp – 20 Vpp (<10 MHz)	2 mVpp – 20 Vpp (<10 MHz)	2 mVpp – 10 Vpp (10–30 MHz)	2 mVpp – 5 Vpp (>30 MHz)
DC Offset Range	$\pm 10$ V pk	$\pm 10$ V pk	$\pm 10$ V pk	$\pm 10$ V pk
Output Impedance	50 $\Omega \pm 10\%$	50 $\Omega \pm 10\%$	50 $\Omega \pm 10\%$	50 $\Omega \pm 10\%$
Phase Adjustment	0 – 359.9° (0.1° resolution)			
Modulation	AM / FM / PM / ASK / FSK / PSK			
Sweep	Linear or logarithmic, 1 ms – 500 s duration			
Burst	1 – 65,535 cycles or gated			
Frequency Counter	1 Hz – 100 MHz, 32-bit precision			

### Standard Accessories

Three-wire power cable  
BNC coaxial cable  
CD-ROM (waveform editing software)

### Optional Accessories

BNC alligator-clip lead  
RS-232 serial cable  
USB data cable  
Cabinet installation kit

### Interfaces

RS-232, USB Device, optional USB Host

## General Specifications

### Dimensions

250 × 90 × 300 mm (W × H × D) approx.

### Mass

3.5kg (main unit) / 3.9kg (with packaging)

### Power Supply

220 V  $\pm 10\%$ , 45 – 65 Hz (optional)  
110 V  $\pm 10\%$   
Power consumption: < 15 W

### Safety & Compliance

Designed and tested for general laboratory and industrial use. Standard 1-year warranty. Complies with general safety and EMC requirements.

### Operating

10 °C – 40 °C; Storage: –10 °C – 60 °C  
Humidity:  $\leq 90\%$  RH ( $\leq 35$  °C),  
 $\leq 60\%$  (35 – 40 °C)

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