GPS LTD.

OSCILLOSCOPE

GPS

1000XE series

A streamlined design built on customer demands for a powerful, precise unit that can also deliver serial decoding and triggering all at an affordable price

Serial communication buses are used extensively in modern electronic designs. Serial buses offer significant cost advantages and some performance improvements over parallel bus communications. The GPS-1000X-E includes decoding and analysis of popular serial standards to help engineers see what is happening in their design to identify programming and timing errors and check for other signal integrity issues. Timing analysis tools help to show performance of each design element, enabling the engineer to identify those parts of the design that need to be improved to optimize overall system performance. Another powerful addition is the new 1M points FFT math function that gives the user very high frequency resolution when observing signal spectra. With all these features and many more including: low system noise, three-dimensional signal display and a new hardware co-processor, the GPS-1202X-E is a trailblazer for modern oscilloscopes in its price range.

Key Features

- 2 or 4 channels
- 100 or 200 MHz bandwidth
- Real-time sampling rate up to 1GSa/s
- Serial bus decoding
- True measurement up to 14 Mpts
- 1 Mpts FFT with a new math co-processor
- Waveform capture rate up to 100,000 wfs/s (normal mode), 400,000 wfs/s (sequence mode)
- History Waveforms (History) mode and segmented acquisition (Sequence) mode
- Supports 256-level intensity grading and colour temperature display
- Gate and Zoom Measurement

Ideal for

- Automotive
- Aerospace
- Drivers and electrical machines
- Military
- Utilities; electrical, water and gas

www.gpslimited.com/1000XE
For all enquiries, Tel: +44 (0) 208 964 3600
Email: info@gpslimited.com

Technical Specifications

Model	GPS-1102XE GPS-1104XE	GPS-1202XE GPS1204XE
Bandwidth	100 MHz	200 MHz
Sample Rate (Max)	1 GSa/s	
Channels	4 (four channel series), 2+EXT (two channel series)	
Memory Depth (Max)	7 Mpts/CH (Dual-Channel); 14 Mpts/CH (Single-Channel)	
Waveform Capture Rate	100,000 wfms/s (normal mode), 400,000 wfms/s (sequence mode)	
Trigger Type	Edge, Slope, Pulse width, Window, Runt, Interval, Dropout, Pattern, Video	
Serial Trigger and decoder (standard)	I2C, SPI, UART/RS232, CAN, LIN	
16 Digital Channels (OPTION, 4CH only)	Maximum waveform capture rate up to 1 GSa/s, Record length up to 14 Mpts/CH	
USB AWG module (OPTION, 4CH only)	One channel, 25 MHz, sample rate of 125 MHz, wave length of 16 kpts	
USB WIFI adapter (OPTION, 4CH only)	802.11b/g/b, WPA-PSK, the adapter must be supplied by Siglent to ensure working	
Bode plot (standard, 4CH only)	Minimum start frequency of 10 Hz, minimum scan bandwidth of 500 Hz, maximum scan bandwidth of 120 MHz (dependent on Oscilloscope and AWG bandwidth), 500 maximum scan frequency points	
I/O	USB Host, USB Device, LAN, Pass/Fail, Trigger Out, 1 kHz Cal	
Display	7-inch TFT LCD (800x480)	

Standard Accessories
EasyscopeX© software
USB cable
Passive probes PP215 (2 pcs)
220V AC EU power cord (unit is 220V and 110V selectable)
Standard Certification

Power
100 ~ 240 VAC, CAT II, Auto selection; 50W Max

Input Voltage
1M ≤400Vpk (DC + Peak AC <=10kHz), 50 ≤5Vrms

EMC
2004/108/EC
Execution Standard EN 61326-1:2006
EN 61000-3-2:2006 + A2:2009
EN 61000-3-3:2008

Safety
2006/95/EC
Execution Standard EN 61010-1:2010/EN 61010-2-030:2010

General Specifications

Part Numbers / Optional Accessories		
Code	**Item**	**Part Number**
GPS-1102XE	2 channel, 7" TFT LCD, 100MHz Digital Phosphor Oscilloscope with Serial Decoding	201353
GPS-1202XE	2 channel, 7" TFT LCD, 200MHz Digital Phosphor Oscilloscope with Serial Decoding	201600
GPS-1104XE	4 channel, 7" TFT LCD, 100MHz Digital Phosphor Oscilloscope with Serial Decoding	201433
GPS-1204XE	4 channel, 7" TFT LCD, 200MHz Digital Phosphor Oscilloscope with Serial Decoding	201624
		Please enquire about adding options

Dimensions
312 x 134 x 150mm / 12 x 5 x 6" (w x d x h) approx.

Mass
2.5kg/5.5lbs approx.

Operating
10°C ~ 40°C
85%RH, 40°C, 24hours
≤3000m

Services
1-year warranty (subject to product registration with GPS Ltd)

Visit www.gpslimited.com/register-product
Service and calibration available.

Please contact for more information

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