



GPS

1000X-E 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

- 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-1102X-E	GPS-1202X-E
Bandwidth	100 MHz	200 MHz
Sample Rate (Max)	1 GSa/s	
Channels	2+EXT	
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	I2C, SPI, UART/RS232, CAN, LIN	
Decode Type	I2C, SPI, UART/RS232, CAN, LIN	
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

1MΩ ≤400Vpk (DC + Peak AC ≤10kHz), 50Ω ≤5Vrms

Languages

English, Arabic, French, German, Russian, Portuguese Spanish,
 Japanese, Korean, Italian

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-1102X-E	7" TFT LCD, 100MHz Digital Phosphor Oscilloscope with Serial Decoding	201353
GPS-1202X-E	7" TFT LCD, 100MHz Digital Phosphor Oscilloscope with Serial Decoding	201600

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

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