GPX Logic Analyzers

3000 Series

This product is no longer carried in our catalog.

GPX Logic Analyzer

- 1 GHz High-speed Timing Analysis
- 200 MHz Timing Analysis
- 80 MHz State Analysis
- 8 K or 32 K Acquisition Memory Depths
- 20 to 360 Channels Available in 20 Channel Increments
- Simultaneous State and Timing - No Double Probing
- Comprehensive Microprocessor Support
- Real-time Performance Analysis
- ROM Emulation
- Links to High Level Languages for Software Debug
- Industry Standard File Outputs

Additional Modules

- 2 GHz High-speed Timing Analysis Module (30HSM)
- 400 MS/s Digitizing Oscilloscope (30DSM)
- Lower Cost Microprocessor Analysis Module (30MPX)

Multiple Mainframes

- 3001 Portable Mainframe
- 3002C Color Modular Mainframe
- 3002P Portable Modular Mainframe

3000 Series

- 100 MB Hard Disk
- MS-DOS Compatible, 3.5 in. Disk
- Postscript/EPSON Printer Support
- GOSCRIPT Formats
- Full Size QWERTY Keyboard
- RS-232 and GPIB Support

Tektronix Measurement products are manufactured in ISO registered facilities.

For additional information or to order, contact your local Tektronix representative.

3000 Series Application Module Selection Guide

Product/ Application	Channels/ Card	Rate	Clock Type	Memory[3]	Triggering
32GPX:					
general purpose microprocessor hardware/software integration	80–160[1] 80–160[1] 16–32[1]	80 MHz 200 MHz 1 GHz	synchronous transitional conventional	4 K/16 K 8 K/32 K 40 K/160 K	4 states/16 levels 4 word/range recognizers 2 counter/timers
30MPX:					
8/16/32-Bit microprocessor hardware/software integration	96 9	16 MHz[2] 200 MHz or 90 MHz	synchronous transitional synchronous	8K 2K 2K	7 states/ 8 word/ range recognizers 8 counter/timers
30HSM:					
high-speed hardware analysis	20 or 4 or 20 or 18	400 MHz 2 GHz 200 MHz 95 MHz	transitional transitional dual threshold synchronous	24 K 120 K 12 K 6 K	15 trigger tests 4 levels 2 counter/timers 4 word recognizers 4 TekLink signals
30DSM:					
analog waveform analysis	1 or 2	400 MS/s 200 MS/s	NA NA	32 K 16 K	edge: rising/falling external trigger

[1] Channels can be doubled by welding two GPX modules in a 3002 or 3002E mainframe.
[2] Supports microprocessor clock rates up to 33 MHz.
[3] Two memory depths modules are available, 32GPX and the deep 32GPD.

3000 Series System Selection Guide

Product	Description	Module	Display	Mass Storage
3001GPX[1] with Opt. 1S	1-slot portable	one 32GPX or one 32GPD	9 in. mono	3.5 in. FD (std.)/HD (opt.)
3001MPX	1-slot portable	one 30MPX	9 in. mono	3.5 in. FD (std.)/HD (opt.)
3001HSM	1-slot portable	one 30HSM	9 in. mono	3.5 in. FD (std.) /HD (opt.)
3002CG[1] with Opt. 1S	2-slot system	one 32GPX or one 32GPD	14 in. color	3.5 in. FD (std.)/HD (opt.)
3002CGG[1] with Opt. 1S	2-slot system	two 32GPX or two 32GPD	14 in. color	3.5 in. FD (std.)/HD (opt.)

3002CGH[1] with Opt. 1S	2-slot system	one 32GPX or one 32GPD, one 30HSM	14 in. color	3.5 in. FD (std.)/HD (opt.)
3002CGD[1] with Opt. 1S	2-slot system	one 32GPX or one 32GPD, one 30DSM	14 in. color	3.5 in. FD (std.)/HD (opt.)
3002CX	2-slot system	one 30MPX	14 in. color	3.5 in. FD (std.)/HD (opt.)
3002CXX	2-slot system	two 30MPX	14 in. color	3.5 in. FD (std.)/HD (opt.)
3002CH	2-slot system	one 30HSM	14 in. color	3.5 in. FD (std.)/HD (opt.)
3002CHH	2-slot system	two 30HSM	14 in. color	3.5 in. FD (std.)/HD (opt.)

3002CXH	2-slot system	one 30MPX, one 30HSM	14 in. color	3.5 in. FD (std.)/HD (opt.)
3002CXD	2-slot system	one 30MPX, one 30DSM	14 in. color	3.5 in. FD (std.)/HD (opt.)
3002CHD	2-slot system	one 30HSM, one 30DSM	14 in. color	3.5 in. FD (std.)/HD (opt.)

[1] The 32GPX and 32GPD modules can be configured for 20, 40, 60, or 80 channels. Prices are for fully configured 80 channel modules.

Ordering Information

Our most popular configurations are listed here. For complete ordering information please see configuration guide. Part number 5EA 8297-3 (U.S.) or 5EW 8297-3 (International).

3001 Series Logic Analyzers

3001GPX General Purpose and Microprocessor Analysis Instrument
Includes: 16-CH @ 1 GHz Timing, 80-CH @ 200 MHz Timing, 80-CH @ 80 MHz State, 8 K Acquisition Memory, 4 P6490 Probes, and 720 KB Floppy.

Opt. 1A: 32PA Performance Analysis Software

Opt. 1D: Delete 20 Channels (60 total)

Opt. 2D: Delete 40 Channels (40 total)

Opt. 3D: Delete 60 Channels (20 total)

Opt. 1K: Add QWERTY Keyboard

Opt. 1M: Add Hard Disk

Opt. 1S: Substitute 32 K Acquisition Memory

Opt. 1Z: Add Keyboard and Hard Disk (Value Pack)

3001MPX 8/16/32-Bit Microprocessor Analysis Instrument
Includes: 96-CH State and 9-CH @ 200 MHz Timing (req. Opt. 1H), P6480 State Probe without Leadset, and 720 KB Floppy.

Opt. 1A: 30DA01 Performance Analysis Software

Opt. 1F: P6480 General Purpose Probe Adapter

Opt. 1H: One P6486 Timing Probe

Opt. 1K: Add QWERTY Keyboard

Opt. 1L: One P6486 High Performance Leadset

Opt. 1M: Add Hard Disk

3001HSM High-speed Acquisition Instrument
Includes: 20-CH @ 400 MHz, or 4-CH @ 2 GHz, or 20-CH @ 200 MHz Dual Threshold Timing, Two P6487 High-speed Probes with Standard Leadsets, and 720 KB Floppy.

Opt. 1K: Add QWERTY Keyboard

Opt. 1L: Add Two 400 MHz Leadsets

Opt. 4L: Add One 2 GHz Leadset

Opt. 5L: Add Two 2 GHz Leadsets

Opt. 1M: Add Hard Disk

Opt. 2A: Add 18-CH 95 MHz Sync Mode (req. 1L)

Preconfigured 3002 Logic Analyzers

3002CG 3002C M/F with One 32GPX
Includes: 3002C, 14 in. Color Monitor, HDD, 720 KB Floppy, Keyboard, One 32GPX, Four P6490s and Performance Analysis SW.

Opt. 1S: Substitute one 32GPD with 32 K Acquisition Memory

3002CGG 3002C M/F with Two 32GPXs
Includes: 3002C, 14 in. Color Monitor, HDD, 720 KB Floppy, Keyboard, Two 32GPXs, Eight P6490s and Performance Analysis SW.

Opt. 1S: Substitute two 32GPDs with 32 K Acquisition Memory

3002CGH 3002C M/F with One 32GPX and One 30HSM
Includes: 3002C, 14 in. Color Monitor, HDD, 720 KB Floppy, Keyboard, One 32GPX, Four P6490s , One 30HSM, Two P6487s and Performance Analysis SW.

Opt. 1S: Substitute one 32GPD with 32 K Acquisition Memory

3002CGD 3002C M/F with One 32GPX and One 30DSM
Includes: 3002C, 14 in. Color Monitor, HDD, 720 KB Floppy, Keyboard, One 32GPX, Four P6490s, One 30DSM, Two P6109Bs, and Performance Analysis SW.

Opt. 1S: Substitute One 32GPD with 32 K Acquisition Memory

3002CX 3002C M/F with One 30MPX
Includes: 3002C, 14 in. Color Monitor, HDD, 720 KB Floppy, Keyboard, One 30MPX, One P6480 and Performance Analysis SW.

3002CXX 3002C M/F with Two 30MPXs
Includes: 3002C, 14 in. Color Monitor, HDD, 720 KB Floppy, Keyboard, Two 30MPXs, Two P6480s, and Performance Analysis SW.

3002CH 3002C M/F with One 30HSM
Includes: 3002C, 14 in. Color Monitor, HDD, 720 KB Floppy, Keyboard, One 30HSM, and Two P6487s.

3002CHH 3002C M/F with Two 30 HSMs
Includes: 3002C, 14 in. Color Monitor, HDD, 720 KB Floppy, Keyboard, Two 30HSMs, and Four P6487s.

3002CXH 3002C with One 30MPX and One 30HSM
Includes: 3002C, 14 in. Color Monitor, HDD, 720 KB Floppy, Keyboard, One 30MPX, One P6480, One 30HSM, Two P6487s and Performance Analysis SW.

3002CXD 3002C with One 30MPX and One 30DSM
Includes: 3002C, 14 in. Color Monitor, HDD, 720 KB Floppy, Keyboard, One 30MPX, One P6480, One P6486, One 30DSM, Two P6109Bs, and Performance Analysis SW.

3002CHD 3002C with One 30HSM and One 30DSM
Includes: 3002C, 14 in. Color Monitor, 100 MB HDD, 720 KB Floppy, Keyboard, One 30HSM, Two P6487s, One 30DSM, and Two P6109Bs.

The above 3002 systems have options to substitute the color monitor with a flat panel display, add additional leadsets, and other options to customize the systems to your needs.

3002 Series Mainframes

3002C Two‑slot System Mainframe with Color Monitor
Includes: 14 in. Color Monitor, Hard Disk, 720 KB Floppy, QWERTY Keyboard.

3002P Two‑slot System Mainframe with EL Flat‑panel Display
Includes: 9 in. Electroluminescent Flat‑panel Display, Hard Disk, 720 KB Floppy, and QWERTY Keyboard.

3002E Two‑slot System Expansion Mainframe
Includes: 9 in. and 4 ft. TekLink Cable, Mainframe Mounting Plate.

International Power Plugs Options

Opt. A1: Universal Euro 220 V, 50 Hz

Opt. A2: United Kingdom 240 V, 50 Hz

Opt. A3: Australian 240 V, 50 Hz

Opt. A4: North American 240 V, 60 Hz

Opt. A5: Switzerland 220 V, 50 Hz

See Customer Information Section for additional description.

3002 Series Instrument Modules

32GPX General Purpose and Microprocessor Analysis Module
Includes: 8 K Acquisition Memory and Four P6490 Probes and Leadsets.

Opt. 1A: 32PA Performance Analysis Software

Opt. 2W: Add One Welding Connector

32GPD General Purpose and Microprocessor Analysis Module
Includes: 32 K Acquisition Memory and Four P6490 Probes and Leadsets.

Opt. 1A: 32PA Performance Analysis Software

Opt. 2W: Add One Welding Connector

30MPX 8/16/32‑Bit Microprocessor Analysis Application Module
Includes: P6480 State Probe without Leadset.

Opt. 1A: 30DA01 Performance Analysis Software

Opt. 1F: P6480 General Purpose Probe Adapter

Opt. 1H: One P6486 Timing Probe

Opt. 1L: One P6486 High‑performance Leadset

30HSM High‑speed Application Module
Includes: Two P6487 with Standard Leadset.

Opt. 2A: 18‑CH 95 MHz Sync Mode Adapter (req. Opt. 1L)

Opt. 1L: Add Two High‑performance Leadsets

Opt. 4L: Add One 2 GHz Leadset

Opt. 5L: Add Two 2 GHz Leadsets

30DSM Digitizing Oscilloscope Module
Includes: Two P6109B: 10:1 Probes.

Service Assurance Options

Opt. R2: Adds two years of post‑warranty Repair Protection
30DSM/30HSM/30MPX,
3001GPX/3001HSM
3001MPX
3002C
3002CG
3002CGD/3002CGG/3002CGH
3002CH/3002CHD3002CHH/3002CX/3002CXD/
3002CXH/3002CXX
3002E
3002ED
3002P
32GPD
32GPX

Opt. Q0 Onsite Installation
32GPX
32GPD

Additional Accessories

P6490
32GPX Data Acquisition Probe

P6480
30MPX State Data Acquisition Probe Without Lead

Opt. 1F: Add General Purpose Probe Adapter

P6486
High‑speed Data Acquisition Probe with Standard Leadset for 30MPX

Opt. 1L: Add One High‑performance Leadset

P6487
High‑speed Data Acquisition Probe with Standard Leadset for 30HSM

Opt. 1L: Add One High‑performance Leadset

FasTrak: Micro‑Training Package

CenTrak: High‑speed Demo Fixture

1200C01
RS‑232 COMM Pack

30C02
GPIB COMM Pack

Prototype Debug Tool Support Packages

30RP2
General Purpose PDT with ROM Probe

Opt. 01: Add 24/28/32‑Pin General Purpose ROM Probe Adapter

Opt. 02: Add 40‑Pin DIP ROM Probe Adapter

32GPX/32GPD Microprocessor Support Packages

32DM02
8085 Disassembly Software, Socketed 40‑Pin DIP

32DM04
8086/8088/80C86/80C88 Disassembly Software, Socketed 40‑Pin DIP

32DM06
80186/80188/80C186/80C188 Disassembly Software, Socketed 68‑Pin PGA

Opt. 1S Substitute Socketed 68‑Pin PLCC

32DM07
8031/8051 Disassembly Software, Socketed 40‑Pin Dip

32DM08
80286/80C286 Disassembly Software, Supports Socketed 69‑Pin PGA

Opt. 1S: Substitute Socketed 68‑Pin PLCC

32DM09
80386DX Disassembly Software, Socketed 132‑Pin PGA

Opt. 1S: Substitute Soldered 132‑Pin JEDEC PQFP (AMD Devices only)

32DM10
80386SX Disassembly Software, Soldered 100‑Pin JEDEC PQFP

32DM12A
80486DX/DX2/486SX/487SX Disassembly Software, Socketed 168‑Pin PGA

32DM13A
Pentium Disassembly Software, Socketed 273‑Pin PGA

32DM21
6800/2/8 Disassembly Software, Socketed 40‑Pin DIP

32DM24
6809/6809E Disassembly Software, Socketed 40‑Pin DIP

32DM27
68000/68010/68HC000/68HC001/68EC000 Disassembly SW, Socketed 64‑Pin DIP (68000/010/HC000)

Opt. 1S: Substitute Socketed 68‑Pin PGA (68000/010/HC000/HC001)

Opt. 2S: Substitute Socketed 68‑Pin PLCC (68EC000)

Opt. 3S: Substitute Socketed 68‑Pin PLCC (68HC000)

32DM31
68020/68EC020 Disassembly Software, Socketed 114‑Pin PGA (68020)

Opt. 1S: Substitute Socketed 100‑Pin PGA (68EC020)

Opt. 2S: Substitute Soldered 132‑Pin JEDEC CQFP (68020)

32DM33
68030/68EC030 Disassembly Software, Socketed 128‑Pin PGA

Opt. 1S: Substitute Soldered 132‑Pin JEDEC CQFP

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