

With compliments

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Industry-Standard Performance and Reliability

- Modular: 9-72 Channels
- Support for 50 Microprocessors
- 100 MHz Asynchronous Sampling
- 50 MHz Synchronous Sampling
- Dual Timebase Triggering, Acquisition, and Display
- 14-Level Triggering
- GPIB, RS-232C, Printer Support

RAPID SETUP

The 1241 features a color display for rapid setup and operation. Setups are simple through a straightforward menu-oriented approach, combined with multi-level operation and touch-screen soft keys. Multi-level operation lets you select from one of four levels best matched to your expertise and the task at hand. Touch-screen soft keys provide high-level commands at a keystroke and keep selections simple and well labeled.

BROAD PROCESSOR SUPPORT

The 1241 supports disassembly for 50 different microprocessors and buses – more than any other logic analyzer in the industry. A full range of 8/16/32 bit processors are supported, including popular digital signal processors (DSPs). Refer to Ordering Information for a complete list.

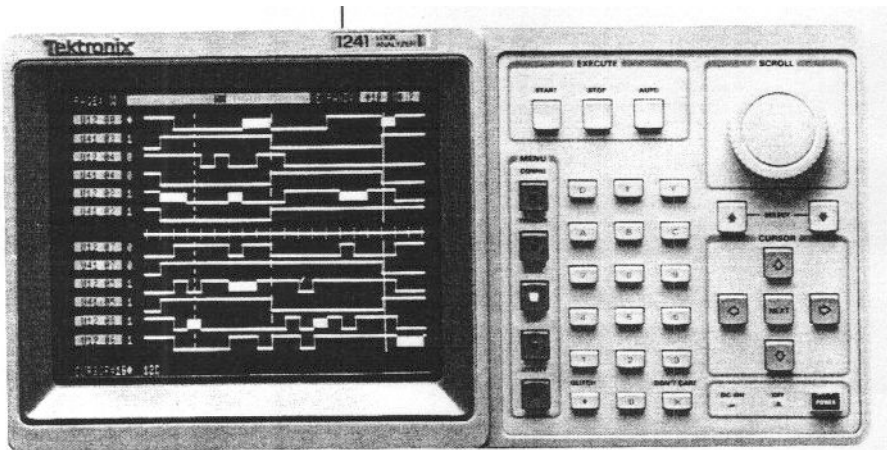
STATE ANALYSIS

State and microprocessor analysis are supported by up to 72 channels at 50 MHz synchronous/asynchronous. A flexible clocking scheme includes data demultiplexing without double-probing. Powerful triggering capabilities include:

- 14 trigger levels
- Conditional branching to track program flow through multiple branches
- Two independent word recognizers
- Data storage on/off control

SYSTEM INTEGRATION

The 1241 offers a dual timebase system that integrates all the timing and state analysis capabilities. This dual timebase system speeds integration tasks by tying together the acquisition, triggering, and display of two independent timebases. You can monitor the interaction between hardware and software, or the relationship of two interdependent systems. All data displays are time aligned and completely correlated.



The 1241's color display rapidly guides your eye to the most relevant information.

SELECTABLE ACQUISITION MODULES

The 1241 has four module slots which accommodate any combination of 9-channel 1240D1 and 18-channel 1240D2 data acquisition modules.

	1240D1	1240D2
Channels	9	18
Max. Async Rate	100 MHz	50 MHz
w/Glitches	50 MHz	n/a
Max. Sync Rate	50 MHz	50 MHz
Memory Depth	512	512
w/Chaining	2048	2048

Glitch capture is available on all 1240D1 channels.

TIMING ANALYSIS

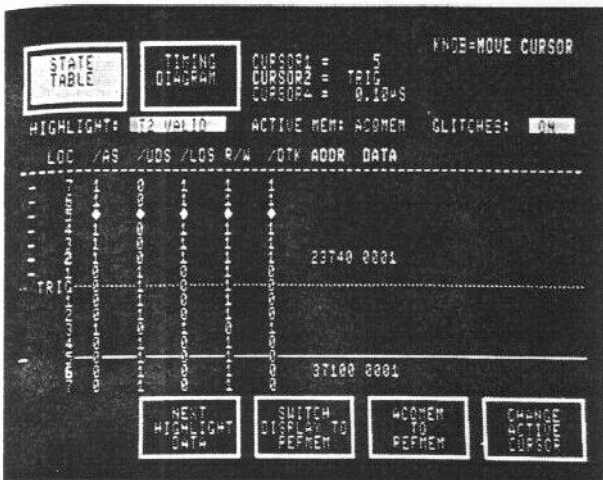
For timing analysis, the 1241 offers up to 36 channels at 100 MHz asynchronous and 50 MHz synchronous sampling. Glitch detection at 6 ns is also available. Superior triggering capabilities include:

- Data and glitch triggering
- Counters, timers, and duration filters for triggering on the characteristics of a signal as well as its occurrence
- Auto-run triggering to track intermittents through continuous acquisitions
- Clocked and unclocked triggering for capturing events that might not coincide with sample points

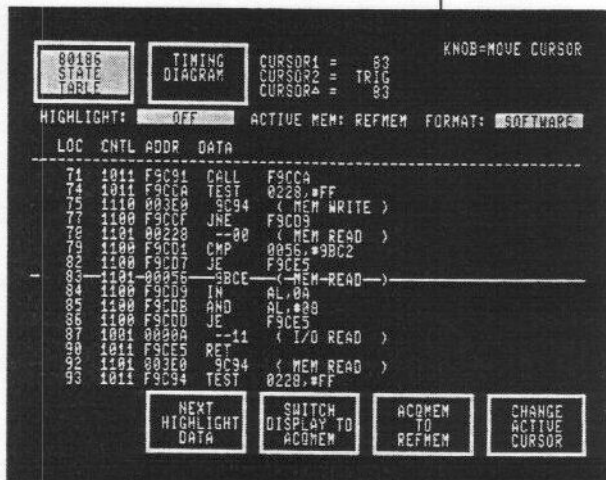
Standard memory depth can be extended to 2048 bits per channel by a special memory chaining feature. This feature lets you chain one module's memory to another of the same type, trading channel width for extended memory depth.

STATE/TIMING ON ALL CHANNELS

The 1240D1 module is optimized for timing analysis, and the 1240D2 for state analysis. However, you can make state and timing measurements on all channels with either module. Both modules also provide powerful triggering capabilities and excellent signal probing characteristics.



State table display showing time-correlated data from two separate timebases. State and timing analysis are available on every channel.



The 1241 supports disassembly for many microprocessors and buses. This example shows 80186 disassembly.

ORDERING INFORMATION

1241 Color Logic Analyzer

Includes: Accessory Pouch (016-0707-01), Front-Panel Cover (200-2780-00), Operator's Manual (070-4340-01), Pocket Reference Guide (070-4641-01), Workbook (062-6926-00), PowerCord
Opt. 05 - Rackmount Hardware

1240D1 9 Channel 100 MHz Data Acquisition Module

Includes: one P6460 Data Acquisition Probe, Leadsets, Grabber Tips
Opt. 1D - Delete P6460 Probes

1240D2 18 Channel 50 MHz Data Acquisition Module

Includes: two P6460 Data Acquisition Probes, Leadsets, Grabber Tips
Opt. 1D - Delete P6460 Probes
Opt. 1S - Substitute two P6462 Probes for P6460s

1241NGP General-Purpose Analysis System

Includes: 1241 Logic Analyzer, 1240D1 Module with P6460, two 1240D2 Modules with four P6460s, 12RS02 RAM Pack

1241NBA Bus Analysis System

Includes: 1241 Logic Analyzer, four 1240D2 Modules with eight P6460s, 12RS02 RAM Pack

1241NHS High-Speed Analysis System

Includes: 1241 Logic Analyzer, four 1240D1 Modules with four P6460s, 12RS02 RAM Pack

INTERNATIONAL POWER PLUG OPTIONS

Opt. A1 - **Opt. A5** Available
 See page 488 for description.

Logic Analyzer accessories are described in the Accessories section of this catalog. Please refer to page 444.

1241NMP Microprocessor Analysis System

Includes: 1241 Logic Analyzer, 12R01 Performance Analysis ROM Pack, 12RS02 RAM Pack, 1200C11 Parallel Printer COMM Pack, plus all 1240D2 Acquisition Modules, Probing, and Disassembly Software required for microprocessor-specific support.

- Opt. 01** - 8080 Support
- Opt. 02** - 8085 Support
- Opt. 03** - 6800 Support
- Opt. 04** - 6801/3 Support
- Opt. 05** - 6802 Support
- Opt. 06** - 6805E2 Support
- Opt. 07** - 6805E3 Support
- Opt. 08** - 6808 Support
- Opt. 09** - 6809 Support
- Opt. 10** - Z80 Support
- Opt. 11** - 6502 Support
- Opt. 12** - NSC800 Support
- Opt. 13** - 6301/3 Support
- Opt. 14** - GM ECM Support
- Opt. 15** - 1802/4/5/6 Support
- Opt. 16** - 8031/51 Support
- Opt. 17** - 68HC11 Support
- Opt. 21** - 8086 Support
- Opt. 22** - 8088 Support
- Opt. 23** - 80186 Support
- Opt. 24** - 80188 Support
- Opt. 25** - 80286 Support
- Opt. 26** - 68000 Support-DIP
- Opt. 27** - 68000 Support-PGA
- Opt. 28** - 68008 Support
- Opt. 29** - 68010 Support-DIP
- Opt. 30** - 68010 Support-PGA
- Opt. 31** - 68020 Support
- Opt. 32** - Z8001/3 Support
- Opt. 33** - Z8002/4 Support
- Opt. 34** - 64180R0/R1 Support
- Opt. 35** - F9450 Support
- Opt. 36** - 8096 Support
- Opt. 37** - 68030 Support

- Opt. 41** - TMS32010 Support
- Opt. 42** - TMS32020/C25 Support
- Opt. 43** - DSP56000/1 Support
- Opt. 44** - ADSP2100 Support
- Opt. 47** - VAXBI Support
- Opt. 48** - GPIB Support
- Opt. 1B** - Basic Analysis System (substitute 12RC01, two 1240D2s with P6460s for microprocessor-specific support)

RELATED PRODUCTS

- P6460 9 Channel 100 MHz Data Acquisition Probe
- P6462** 9 Channel TTL-Only 25 MHz Data Acquisition Probe
- A6740G** Serial Acquisition Probe
- SMG50** 20 SMT Grabber Tips
- K212** Portable Instrument Cart
- 1200C01** RS-232C COMM Pack
- 1200C02** GPIB COMM Pack
- 1200C11** Parallel Printer COMM Pack (requires 12RC01 or 12RMxx)
- 12R01** Performance Analysis ROM Pack
- 12RC01** Printer Support ROM Pack (requires 1200C01 or 1200C11)
- 12RC02** Master/Slave ROM Pack
- Opt. 01** - Modem
- 12RS02** 64K RAM Pack
- 12RS11** 32K EPROM Pack (empty)
- 12RS12** 32K EPROM Pack
- Service Maintenance Kit

Includes: Service Manual, 12RD01 Diagnostic ROM Pack, Extender Card, Diagnostic Leadset (067-1103-03)