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TLA510 TLA520

TLA Logic Analyzers

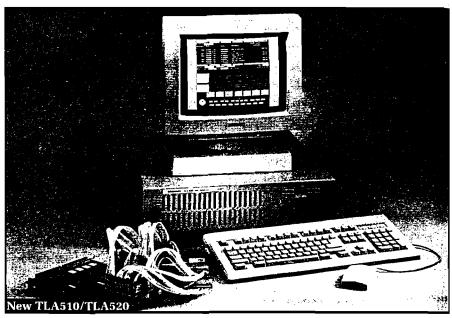
Flexible
performance at
an affordable
price.

Excellent price/ performance for software debug and integration.

The TLA Series
has the ability to
grow in
performance as
the debug
problems grow in
complexity.

TLA510/TLA520

- 100 MHz State Analysis
- 400 Ms Timing Analysis
- 8 K, 32 K, 128 K, 512 K Acquisition Memory Depths
- 100, 150 and 200 Channel Widths Models
- High Performance RISC/CISC
 Microprocessor
 Support
- Advanced Performance Analysis
- Links to High Level Languages for Software Debug
- Compliant with CISPR IIA Radiated and Conducted Emissions Requirements
 18-CH, 50 MHz Algorithmic Pattern Generator



The TLA 500 Series user interface can be displayed and controlled from any X11 Windows compatible workstation or terminal.

Excellent Price/Performance

The TLA series has the performance necessary to solve the tough software/hardware integration and software debug problems previously available only in high-performance analysis systems.

SIZED TO THE TASK

The TLA510 includes 100 channels (96 data and four clock) of 100 MHz acquisition. This is ideal for most single processor applications. The TLA520 includes 200 channels of 100 MHz acquisition that can be divided to support two processors time correlated, or combined to support one advanced processor. The TLA520 can optionally be configured as one 100 channel and one 50 channel acquisition. This is convenient when the integration task requires single processor support with separate, but time correlated, state or timing channels.

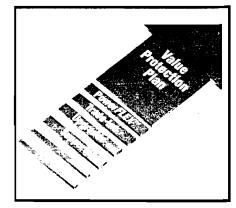
ROBUST COMMUNICATION CAPABILITY

LAN Ethernet and RS-232 communication comes standard with each TLA. Optional and accessory application software offers full remote control capability across the LAN network.

NEW POWERFLEX™, THE FIRST SCALABLE ARCHITECTURE

The PowerFlex™ technology allows the TLA to grow in memory depth and channels without throwing away major portions of your investment. The capability of the instrument can quickly and economically grow as the debug complexity of the target system increases.

All TLA acquisition modules come standard with 8 K of memory. Memory depths of 32 K, 128 K and 512 K are optionally available. Both channel count and memory depth can be easily upgraded in the future using the Power FlexTM capability.



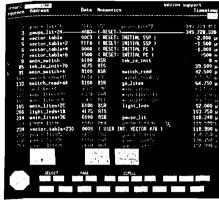
Product(s) available through your local Tektronix representative (listed in the back of this catalog) or call 1-800-426-2200.

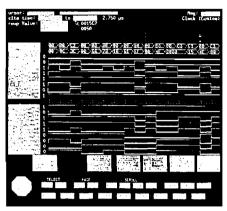


Tektronix Measurement products are manufactured in ISO registered facilities.

TLA Logic Analyzers

TLA510 TLA520





The point-and-click X-windows user interface provides efficient setup and rapid display selections. Various modes of displays can be displayed simultaneously, e.g., Disassembly and Timing.

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The 50 MHz pattern generation capability offers efficient, real-time hardware simulation, external event simulation or fault injection.

MULTIPLE DATA DISPLAYS

Beyond the basic state and timing data displays there are four levels of disassembly display available with high level language symbols for software debug.

The Graph display plots acquired data value versus sequence. This is useful to spot errant software execution and for A/D display applications.

ADVANCED PRINT SUPPORT

Both screen images and data files are efficiently printed. Postscript, LaserJet, PCX and BMP are all supported formats. The images can be output to either a local printer or a printer on the LAN network. Alternatively the images are stored in either a local file or transferred across the network to a remote file.

PATTERN GENERATION FOR SIMULATION AND FAULT INJECTION

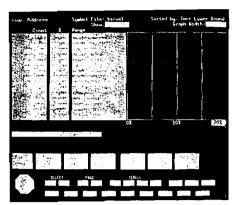
The TLA510 offers optional 50 MHz algorithmic pattern generation support TTL signals with Tristate. The 18 channels of TTL signals, with Tristate, can be programmed with specific data values or driven from internal registers that can be loaded, incremented and decremented. Robust branching and looping capability allows full programming of up to 1000 sequences.

Optional accessory probes are available to control the program sequencing from external events and/or add fully programmable pulse timing capability. ECL probe capability is also available.

The pattern generator can be used to simulate hardware that is not available or real-time events on an external bus. It can also inject real-time faults into a target for system analysis.

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TLA Logic Analyzers



The performance analysis software includes address binning and event timing modes to quickly determine where performance improvements are needed. Support for 5000 ranges, symbolic representation and data output coupled with deep memory make this a powerful analysis tool.

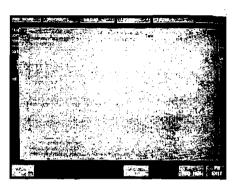
SYMBOLIC PERFORMANCE ANALYSIS

It has become vitally important to know how well your embedded system is performing. The optional performance analysis software charts a histogram of the percentage of execution time spent in each range of software. The screen updates rapidly and the ranges can be sorted while running. The display quickly shows where the bulk of the execution time is being spent. An alternate analysis mode displays a histogram of the range of time required for a particular event, e.g., interrupt latency.

Data can be sorted into 5,000 ranges allowing concise range placement. Data for the ranges can be imported directly from your computer, easing the definition of ranges. The output can be saved as an ASCII file for further analysis.

SIMPLIFIED TRIGGER SETUP

A robust set of pre-programmed triggers address the common types of desired trigger definitions. Just select the trigger type and enter the specific data, e.g., address value. Users can also define libraries of trigger definitions commonly used in their environment.



TLA Logic Analyzers

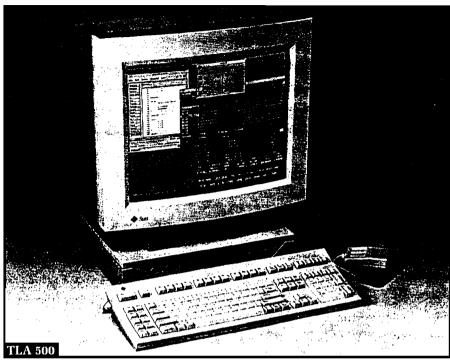
ENTERPRISE INSTRUMENTATION CAPABILITIES

It is becoming increasingly important to connect the logic analyzer into the engineering network to maximize the efficiency of the debug and integration cycle. The TLA series offers two levels of enterprise capability. An optional 17-inch X terminal display can replace the standard 14-inch model. The larger display provides a larger TLA user interface or additional display room for other X applications across the network. The standard Telnet software provides remote log in to other workstations.

The second level of enterprise integration replaces the local X terminal display with a full interactive X display on the user's workstation. The TLA can be accessed, single user, from any X11 compatible workstation on the network.

LONG TERM PRODUCT SUPPORT

Every TLA 500 is delivered to you with a full one year on-site Service Assurance. (This support may not be available in all geographic areas. Check with your local Tektronix sales engineer.) Service Assurance service options may be purchased to extend coverage to two, three, or four years at the time you purchase vour system.



The TLA 500 user interface can optionally be displayed and controlled from any X11 Windows compatible workstation or terminal.

ORDERING INFORMATION Includes: LAN Ethernet and RS-232 Standard, 170 MB Hard Disk, 1,4 MB 3,5 in. Floppy Drive. **Opt. 01** – 32 K Memory+\$4,000 **Opt. 02** – 128 K Memory+\$8,000 **Opt. 03** – 512 K Memory+\$12,000 Opt. 04 - Performance Analysis Software +\$1,500 Opt. 30 - 18-CH, 50 MHz Pattern Generator+\$7,980 Opt. Q0 - On-site Installation+\$300 Includes: LAN Ethernet and RS-232 Standard, 170 MB Hard Disk, 1.4 MB 3.5 in. Floppy Drive. Opt. 01 – 32 K Memory+\$8,000 **Opt. 02 –** 128 K Memory+\$16,000 **Opt. 03 –** 512 K Memory+**\$24,000** Opt. 04 - Performance Ánalysis Software+\$1,500 Opt. 1S - Delete 50-CH of Acquisition-\$3,500 Opt. Q0 - On-site installation+\$350 SERVICE ASSURANCE OPTIONS **TLA510** Opt. K1 - Adds one year of post-warranty Customer-Site Repair Protection and Software Subscription Services, as appropriate+\$320 Opt. K2 - Adds two years of post-warranty Customer-Site Repair Protection and Software Subscription Services, as appropriate+\$640 Opt. K3 - Adds three years of post-warranty Customer-Site Repair Protection and Software Subscription Services, as appropriate+\$960

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Opt. K1 – Adds one year of post-warranty Customer-Site Repair Protection and Software Subscription Services, as appropriate+\$415
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Opt. K3 – Adds three years of post-warranty Customer-Site Repair Protection and Software Subscription Services, as appropriate+\$1,245
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Opt. A1 - Universal Euro 220 V, 50 Hz
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Opt. A1 – Universal Euro 220 V, 50 Hz NC Opt. A2 – United Kingdom 240 V, 50 Hz NC Opt. A3 – Australian 240 V, 50 Hz NC Opt. A4 – North American 240 V, 60 Hz NC

Workbench Cart. Order K420.....\$730

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