

Tektronix Logic Analyzers

► Probe Selection Guide

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P6810



P6860



P6864



P6880



P6417



P6418



P6419



P6434

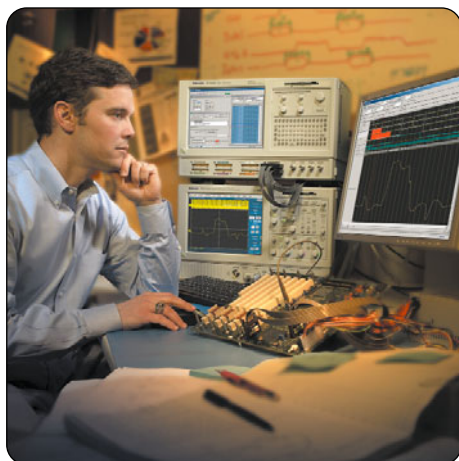
Logic Analyzer Used	TLA7AAx Logic Analyzer Modules TLA7ABx Logic Analyzer Modules				TLA6xx Logic Analyzers TLA520x Logic Analyzer Modules TLA7Lx/Mx/Nx/Px/Qx Logic Analyzer Modules			
Recommended Use	Recommended for most general-purpose uses that require maximum flexibility for single-ended or differential requirements	Recommended for applications requiring many channels to be quickly connected in a small footprint	Recommended for applications where high data rate signals in excess of 450 MHz requiring quick connect to a small footprint	Recommended for applications requiring many differential channels to be quickly connected in a small footprint	Recommended for most general-purpose uses that require maximum flexibility	Recommended for most general-purpose uses	Recommended for applications requiring many channels to be quickly connected in a small footprint	Recommended for applications requiring many channels to be quickly connected in a small footprint
Attachment to Target System	Probe leadsets adapt to industry standard interfaces; leads spread over a wide area	Connectorless “compression” contact (Adapter for Mictor connector available)	“Compression” contact (Adapter for Mictor connector not recommended)	Connectorless “compression” contact (Adapter for Mictor connector available)	Probe leadsets adapt to industry standard interfaces; leads spread over a wide area	Probe leadsets adapt to industry standard interfaces	Connectorless “compression” contact (Adapter for Mictor connector available)	AMP Mictor 34 channel connector (Adapter to use P6434 with P6860/80 high-density compression land footprint available)
Probe Type	General purpose, 34 channel active probe	High density, 34 channel active probe	17 channel probe, signals demuxed to 68 channels	High density, 34 channel active differential probe	General purpose, 17 channel passive probe	General purpose, 17 channel passive probe	High density, 17 channel passive probe	High density, 34 channel passive probe AMP Mictor connector required
Pin Spacing Supported	0.100 in. and 2 mm	N/A	N/A	N/A	0.100 in. and 2 mm	0.100 in. and 2 mm	N/A	N/A
Logic Signals Supported	Differential Clock Differential Data	Differential Clock Single-ended Data	Differential Clock Single-ended Data	Differential Clock Differential Data	Single-ended Clock and Data (Differential signal adapters available)	Single-ended Clock and Data (Differential signal adapters available)	Single-ended Clock and Data	Single-ended Clock and Data
Simultaneous State/Timing to	800 MHz/8GHz	800 MHz/8 GHz	800 MHz/8 GHz	800 MHz/8 GHz	235 MHz/8 GHz	235 MHz/8 GHz	235 MHz/8 GHz	200 MHz/2 GHz
Simultaneous State/Timing/ Analog to	800 MHz/8 GHz/2 GHz	800 MHz/8 GHz/2 GHz	800 MHz/8 GHz/2 GHz	800 MHz/8 GHz/2 GHz	N/A	N/A	N/A	N/A

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Minimum Signal Amplitude Minimum Single-ended		300 mV _{p-p}			500 mV _{p-p}			
Minimum Differential		$V_{\max} - V_{\min} \geq 150$ mV			N/A			
Probe Load AC/DC	1.2 pF/20 k Ω to Ground	0.7 pF/20 k Ω to Ground			2 pF/ 20 k Ω to 2.2 V (Low-voltage adapters that work with low-voltage signals are available)	2 pF/ 20 k Ω to 2.2 V (Low-voltage adapters that work with low-voltage signals are available)	<0.7 pF/ 20 k Ω to ground	2 pF/ 20 k Ω to 2.2 V
Notes	Works with a wide-range of industry-standard accessories for flexible attachment to your target system	No connector required – only land pads required to be laid out on target system PCB for 17 and/or 34 channels. Please refer to P68xx probe design guide			Works with a wide-range of industry-standard accessories for flexible attachment to your target system	Works with a wide-range of industry-standard accessories for flexible attachment to your target system	No connector required; only land pads required to be laid out on target system	Requires AMP Mictor connector to be installed on target system PCB for every 34 channels. Please refer to P6434 probe manual



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Our most up-to-date product information is available at:
www.tektronix.com



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