

Tektronix Logic Analyzer

► P6800 and P6900 Series Probe Selection Guide



► Tektronix Logic Analyzer P68xx/P69xx Probe Selection Guide

	P6810	P6860	P6864	P6880	P6960	P6964	P6980	P6982
Logic Analyzer Used	TLA7AAx Logic Analyzer Modules TLA7ABx Logic Analyzer Modules TLA7NAx 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 good signal density and quick, reliable attachment	Recommended for applications where high data rate signals in excess of 450 MHz requiring quick connect to a small footprint	Recommended for applications requiring full differential probing with good signal density and quick, reliable attachment	Recommended for applications requiring the best signal density and quick, reliable attachment or for general purpose probing with flying leads	Recommended for applications requiring the best signal density with data rates in excess of 450 MHz and the LA is acquiring with 4X demux requiring quick connect to a small footprint	Recommended for applications requiring full differential probing with the best signal density and a quick, reliable attachment	Recommended for applications requiring full differential with the best signal density with data rates in excess of 450 MHz and the LA is acquiring with 2X demux requiring quick connect to 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	D-Max™ Probing Technology Connectorless "compression" cLGA with optional flying lead set	D-Max™ Probing Technology Connectorless "compression" cLGA		
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	High-density, 34 channel active probe (34-ch per probe head)	High-density, 34 channel active probe (34-ch per probe head)	High-density, 34-channel active differential probe (17-ch per probe head)	High-density, 17-channel active differential probe (17-ch per probe head)
Pin Spacing Supported	0.100 in. and 2 mm	N/A	N/A	N/A	0.100 in. and 2 mm with flying lead set	N/A	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	Differential Clock Single-ended Data	Differential Clock Single-ended Data	Differential Clock Differential Data	Differential Clock Differential Data
Simultaneous State/Timing to:	800 MHz/8 GHz							
Simultaneous State/Timing/Analog to:	800 MHz/8 GHz/2 GHz							

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Minimum Signal Amplitude Minimum Single-ended	300 mV _{pk-pk}							
Minimum Differential	$V_{max} - V_{min}$ 150 mV							
Probe Load AC/DC	0.7 pF/20 kΩ to Ground				0.5 pF/20 kΩ to Ground			
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 manual	No connector required – only land pads required to be laid out on target system PCB for 34 channels. Please refer to P69xx probe manual. Via-in-pad supported. For design guidelines please refer to P69xx probe manual	No connector required – only land pads required to be laid out on target system PCB for 34 channels. Please refer to P69xx probe manual. Via-in-pad supported. For design guidelines please refer to P69xx probe manual	No connector required – only land pads required to be laid out on target system PCB for 17 channels. Please refer to P69xx probe manual. Via-in-pad supported. For design guidelines please refer to P69xx probe manual	No connector required – only land pads required to be laid out on target system PCB for 17 channels. Please refer to P69xx probe manual. Via-in-pad supported. For design guidelines please refer to P69xx probe manual	No connector required – only land pads required to be laid out on target system PCB for 17 channels. Please refer to P69xx probe manual. Via-in-pad supported. For design guidelines please refer to P69xx probe manual	No connector required – only land pads required to be laid out on target system PCB for 17 channels. Please refer to P69xx probe manual. Via-in-pad supported. For design guidelines please refer to P69xx probe manual

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www.tektronix.com

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