

TEKTRONIX

TLA7016

The Tektronix TLA7016 is a high-performance benchtop modular logic analyzer mainframe designed to host up to six TLA logic analyzer or pattern generator modules. Built for high channel count applications, the TLA7016 offers expansion capabilities to support extremely large system configurations, making it a powerful solution for multi-bus and high-speed digital debug and analysis.

SPECIFICATIONS

General

Interfaces	TekLink, System Clock In/Out (BNC), External Trigger In/Out (BNC), Master/Expansion Interfaces
Display	None (requires external display via controller or remote PC connection)

Physical

Power Supply	100 to 240 V AC ($\pm 10\%$), 50 to 60 Hz
Operating Temperature	5 to 50 °C
Dimensions (W×H×D)	483 × 343 × 683 mm
Weight	25 kg

Mainframe Architecture

Number of Module Slots	6 instrument slots
Supported Modules	TLA7000 Series Logic Analyzer and Pattern Generator modules
Maximum Logic Analyzer Channels	Up to 816 per mainframe (up to 4,896 channels in a multi-mainframe expansion configuration)
Mainframe Configuration Options	Master or Expansion mainframe

System & Control

Integrated View (iView) Capability	Yes (up to 15 GHz, 40 GS/s, and 64 Mb analog acquisition via external Tektronix TDS oscilloscope)
Operating System	Microsoft Windows XP Professional (running on compatible controller module)
Remote Control Methods	Windows Remote Desktop, Hosted Mode, .NET, COM/DCOM APIs

Software & Analysis Capabilities

Data Display Formats	Waveform, Listing, Source Code, Histogram (Performance Analysis)
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Acquisition Specifications

Acquisition Specifications	Module-dependent (determined by installed TLA logic analyzer modules)
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Triggering System

Triggering System	Module-dependent (determined by installed TLA logic analyzer modules)
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Probing & Input Characteristics

Probing & Input Characteristics	Module-dependent (determined by installed TLA logic analyzer modules)
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External Connections & Ports

External Trigger Input	BNC, TTL/CMOS/ECL compatible
External Trigger Output	BNC, TTL levels
System Clock Input	BNC, 10 MHz reference clock
System Clock Output	BNC, 10 MHz reference clock

Power & Physical Characteristics

Power Consumption	1450 W maximum
Form Factor	Benchtop (rackmount kit optional)

Environmental & Compliance

Storage Temperature Range	-20 °C to +60 °C
Operating Humidity	20% to 80% relative humidity (non-condensing)
Operating Altitude	Up to 3,000 m (10,000 ft)
Non-Operating Altitude	Up to 12,190 m (40,000 ft)
Safety Certifications	UL61010-1, CAN/CSA C22.2 No. 61010-1, EN61010-1
EMC Compliance	EU EMC Directive 2004/108/EC, EN61326-1

Physical Characteristics

Cooling Clearance (Sides)	51 mm (2 in)
Cooling Clearance (Rear)	76 mm (3 in)

System Architecture

Backplane Architecture	PCI Express (PCIe)
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System Connection

Host Connection	Gigabit Ethernet (10/100/1000 Base-T)
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Module Slots

Maximum Single-Wide Modules	6
Maximum Double-Wide Modules	3

TECHNOLOGY

Logic Analyzer Mainframe

APPLICATIONS

High-speed digital system debug, logic analysis, and pattern generation

