

TEKTRONIX

TLA715

The Tektronix TLA715 is a high-performance portable logic analyzer mainframe belonging to the TLA700 Series. Running on a Microsoft Windows 2000 Professional PC platform, it accepts up to four single-wide or two double-wide logic analyzer or pattern generator modules, allowing for modular flexibility and expansion.

SPECIFICATIONS

General

Interfaces	LAN (10/100 Base-T), GPIB, USB, RS-232, Parallel (LPT), VGA, PS/2 Keyboard, PS/2 Mouse
Display	10.4 in. active-matrix color TFT LCD, 800 x 600 resolution

Physical

Power Supply	90 to 250 V AC, 45 to 66 Hz
Operating Temperature	+5 °C to +50 °C °C
Dimensions (W×H×D)	437 mm × 295 mm × 453 mm mm
Weight	14.1 kg (without modules) kg

System Architecture & Capacity

Number of Module Slots	4 (supports up to 4 single-wide or 2 double-wide modules)
Compatible Module Series	TLA7Axx, TLA7Lx, TLA7Mx, TLA7Nx, TLA7Px, TLA7Qx
Maximum Total Channels Supported	Up to 8160 (via expansion)
Module Interchangeability	Fully interchangeable between portable and benchtop mainframes

Control & Connectivity

Operating System	Microsoft Windows 2000 Professional
Integrated View (iView) Capability	Provides up to 6 GHz, 20 GS/s, and 32 Mb analog acquisition with stand-alone Tektronix TDS Digital Storage Oscilloscope
Remote Control Technology	Microsoft COM/DCOM technology
Offline Analysis Software	TLAVu and PatGenVu

User Interface & Operation

Available Data Views	Waveform, Listing, Source Code, Histogram (Performance Analysis)
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Physical Characteristics

Form Factor	Portable Benchtop Mainframe
Cooling System	Forced-air cooling (internal fans)

Built-in Controller

Processor	Intel Pentium III (850 MHz)
System Memory	512 MB SDRAM
Storage	≥20 GB removable hard disk drive, 3.5-inch 1.44 MB floppy drive, 24X CD-ROM
PC Card Slots	Two Type II or one Type III PCMCIA CardBus slots

Triggering & Synchronization

System Trigger Output	BNC connector, TTL compatible
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Interfaces

External Display Output	15-pin D-sub SVGA connector (supports up to 1280 × 1024 resolution)
USB Ports	2 × USB 1.1
Ethernet Port	1 × 10/100 Base-T RJ-45

Environmental

Operating Altitude	Up to 3,000 m (10,000 ft)
Operating Shock	294 m/s ² (30 g), half-sine, 11 ms duration
Operating Vibration	0.31 g RMS, 5 Hz to 500 Hz
Storage Temperature Range	-20 °C to +60 °C
Operating Humidity	20% to 80% RH (noncondensing)
Non-Operating Humidity	5% to 90% RH (noncondensing)

Synchronization & External Signals

10 MHz Reference Input	BNC connector, TTL compatible
10 MHz Reference Output	BNC connector, TTL compatible

Legacy Ports

Serial Port	1× RS-232 (DB-9 male)
Parallel Port	1× IEEE 1284 (DB-25 female)
Keyboard/Mouse Ports	2× PS/2 (mini-DIN)

System Architecture

Internal Expansion Slot	1× half-length PCI slot
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Interfaces & Connectivity

Audio Ports	3.5 mm jacks (Mic In, Line In, Line Out)
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TECHNOLOGY

Logic Analysis

APPLICATIONS

Modular Logic Analysis and Pattern Generation

