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**Data Sheet**

August 12, 2026

HP / AGILENT

# HP-Agilent-16702B-Logic-Analysis-System-w-16760A , 16718A and Cables

The HP/Agilent 16702B is a Logic Analysis System with 16760A and 16718A logic analyzer modules and cables, designed for debugging and testing digital systems. It provides comprehensive analysis capabilities for complex electronic designs.



|                                                       |                                                                                                                                                |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| MODEL<br><b>HP / Agilent<br/>16702B/16760A/16718A</b> | CALIBRATION<br><b>Available on<br/>request</b>                                                                                                 |
| CONDITION<br><b>Used</b>                              | STATUS<br><b>In stock</b>                                                                                                                      |
| RFQ / SKU<br><b>16702B/16760A/16718A</b>              | LISTING<br><a href="https://aumictechlabs.com/products/16702b-16760a-16718a-2/">https://aumictechlabs.com/products/16702b-16760a-16718a-2/</a> |

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The HP-Agilent 16702B Logic Analysis System is a modular digital test platform combining the 16702B mainframe with 16760A and 16718A logic analyzer modules for state, timing, and high-speed signal analysis. This configuration delivers up to 1.5 GHz state acquisition and 800 MHz timing analysis across 34 channels per module, with 64M to 128M sample memory depth and advanced pattern-based triggering via VisiTrigger for complex debug workflows. Technical Specifications 16702B Mainframe: Display: 12.1-inch color touch screen, 800 × 600 resolution Module slots: 5 measurement, 1 emulation/Multiframe Storage: 18 GB HDD with 40x CD-ROM drive Memory: 128 MB system RAM (upgradeable to 256 MB with Option 003) Networking: 10/100 BaseT LAN auto-sensing Power input: 115 Vac to 230 Vac, single phase, 48 to 66 Hz, max 630 W Operating system: Compatible with 16700-Series Version A.02.00 and higher 16760A Logic

Analysis Module: Type: State and timing analyzer Channels: 34 per module (17 per pod) State speed: Up to 1.5 GHz (half channel mode); 800 Mb/s and 1250 Mb/s modes Timing speed: Up to 800 MHz Memory depth: 64M samples (800 Mb/s mode); 128M samples (1250 Mb/s mode) Signal acquisition: Up to 1.5 Gbits/s with differential inputs Probe capacitance: Low-capacitance, high-density design for minimal bus loading

**Key Features** VisiTrigger interface enables pattern matching, flag events, and range-based triggering Eye diagram analysis on hundreds of channels simultaneously User-configurable or probe-supplied logic threshold voltage for device tracking Touch-screen and front-panel knob navigation with dedicated hotkeys

**Typical Applications** Debug and verification of high-speed digital systems, parallel bus analysis, signal integrity assessment, and protocol-level troubleshooting.

**Compatibility & Integration** The 16760A and 16718A modules integrate directly into the 16702B mainframe, sharing a unified software environment and trigger architecture across all measurement channels.

## Features & description

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From manufacturer datasheet

### Technical Specifications

Display: 12.1-inch color touch screen, 800 × 600 resolution Module slots: 5 measurement, 1 emulation/Multiframe Storage: 18 GB HDD with 40x CD-ROM drive Memory: 128 MB system RAM (upgradeable to 256 MB with Option 003) Networking: 10/100 BaseT LAN auto-sensing Power input: 115 Vac to 230 Vac, single phase, 48 to 66 Hz, max 630 W Operating system: Compatible with 16700-Series Version A.02.00 and higher 16760A Logic Analysis Module: Type: State and timing analyzer Channels: 34 per module (17 per pod) State speed: Up to 1.5 GHz (half channel mode); 800 Mb/s and 1250 Mb/s modes Timing speed: Up to 800 MHz Memory depth: 64M samples (800 Mb/s mode); 128M samples (1250 Mb/s mode) Signal acquisition: Up to 1.5 Gbits/s with differential inputs Probe capacitance: Low-capacitance, high-density design for minimal bus loading

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### Key Features

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### Specifications

ParameterValue Frequency RangeDC to 1.5 GHz (state mode), up to 800 MHz (timing mode) | Voltage / Current Range: 115 Vac to 230 Vac, 48 to 66 Hz, single phase

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### HP / Agilent 16702B/16760A/16718A — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the HP / Agilent 16702B/16760A/16718A. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values Request Calibration → Request Repair Quote →

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### HP / Agilent 16702B/16760A/16718A price

This HP / Agilent 16702B/16760A/16718A is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

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### HP / Agilent 16702B/16760A/16718A calibration cost

NIST-traceable calibration for the HP / Agilent 16702B/16760A/16718A is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

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### Unit notes

The HP-Agilent 16702B Logic Analysis System is a modular digital test platform combining the 16702B mainframe with 16760A and 16718A logic analyzer modules for state, timing, and high-speed signal analysis. This configuration delivers up to 1.5 GHz state acquisition and 800 MHz timing analysis across 34 channels per module, with 64M to 128M sample memory depth and advanced pattern-based triggering via VisiTrigger for complex debug workflows.

**Technical Specifications**

**16702B Mainframe:**  
Display: 12.1-inch color touch screen, 800 × 600 resolution  
Module slots: 5 measurement, 1 emulation/Multiframe  
Storage: 18 GB HDD with 40x CD-ROM drive  
Memory: 128 MB system RAM (upgradeable to 256 MB with Option 003)  
Networking: 10/100 BaseT LAN auto-sensing  
Power input: 115 Vac to 230 Vac, single phase, 48 to 66 Hz, max 630 W  
Operating system: Compatible with 16700-Series Version A.02.00 and higher

**16760A Logic Analysis Module:**  
Type: State and timing analyzer  
Channels: 34 per module (17 per pod)  
State speed: Up to 1.5 GHz (half channel mode); 800 Mb/s and 1250 Mb/s modes  
Timing speed: Up to 800 MHz  
Memory depth: 64M samples (800 Mb/s mode); 128M samples (1250 Mb/s mode)  
Signal acquisition: Up to 1.5 Gbits/s with differential inputs  
Probe capacitance: Low-capacitance, high-density design for minimal bus loading

**Key Features**

VisiTrigger interface enables pattern matching, flag events, and range-based triggering  
Eye diagram analysis on hundreds of channels simultaneously  
User-configurable or probe-

# 16702B/16760A/16718A Specifications

| PARAMETER       | VALUE                                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|
| Frequency Range | DC to 1.5 GHz (state mode), up to 800 MHz (timing mode)   Voltage / Current Range: 115 Vac to 230 Vac, 48 to 66 Hz, single phase |

# Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

The HP/Agilent 16702B is a Logic Analysis System with 16760A and 16718A logic analyzer modules and cables, designed for debugging and testing digital systems. It provides comprehensive analysis capabilities for complex electronic designs.

The HP-Agilent 16702B Logic Analysis System is a modular digital test platform combining the 16702B mainframe with 16760A and 16718A logic analyzer modules for state, timing, and high-speed signal analysis. This configuration delivers up to 1.5 GHz state acquisition and 800 MHz timing analysis across 34 channels per module, with 64M to 128M sample memory depth and advanced pattern-based triggering via VisiTrigger for complex debug workflows.

Typical Applications Debug and verification of high-speed digital systems, parallel bus analysis, signal integrity assessment, and protocol-level troubleshooting.

Compatibility & Integration The 16760A and 16718A modules integrate directly into the 16702B mainframe, sharing a unified software environment and trigger architecture across all measurement channels.

## 16702B/16760A/16718A Specifications

| PARAMETER       | VALUE                                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|
| Frequency Range | DC to 1.5 GHz (state mode), up to 800 MHz (timing mode)   Voltage / Current Range: 115 Vac to 230 Vac, 48 to 66 Hz, single phase |

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Key Features

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Specifications

|                 |                                                                                                                                  |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|
| Parameter       | Value                                                                                                                            |
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Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values

Request Calibration → Request Repair Quote →

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NIST-traceable calibration for the HP / Agilent 16702B/16760A/16718A is (standard – pass/fail certificate and

calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.