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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 3789B DS3 Transmission Test Set

HP Agilent 3789B DS3 Transmission Test Set The HP/Agilent 3789B is a DS3-oriented transmission test set in the HP 378x digital communications family for out-of-service and in-service DS3 error performance measurements. OEM family documentation positions the 3789B for North American DS3 rates with pattern generation and error analysis functions used in telecom turn-up. DS3 facility turn-up, error performance monitoring, and digital transmission maintenance on 44.736 Mb/s class links. Instrument Type: DS3 transmission test set The HP/Agilent 3789B is a DS3-oriented transmission test set in the HP 378x digital communications family for out-of-service and in-service DS3 error performance measurements. OEM family documentation positions the 3789B for North American DS3 rates with pattern generation and error analysis functions used in telecom turn-up. DS3 facility turn-up, error performance monitoring, and digital transmission maintenance on 44.736 Mb/s class links. Instrument Type: DS3 transmission test set Primary Rate Class: DS3 44.736 Mb/s class



MODEL

HP / Agilent 3789B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

3789B

LISTING

<https://aumictechlabs.com/products/3789b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 3789B DS3 Transmission Test Set delivers end-to-end DS3 circuit testing and troubleshooting from a single access point. This instrument generates and analyzes DS3 signals at 44.736 Mbps, supports unframed and framed test patterns (M13 and C-bit parity), and includes built-in demultiplexing for simultaneous DS1/DS3 measurements. Bidirectional testing on C-bit

parity equipment enables simultaneous signal analysis in both directions, while comprehensive error injection capabilities stress-test interfaces and detect transmission faults. Technical Specifications Signal Generation & Detection Supports unframed, M13, and C-bit parity test patterns Generates and detects DS3 Idle signals DS3 operating rate: 44.736 Mbps Built-in demultiplexer for DS1 signal extraction from DS3 access point Testing Capabilities Error injection facility for equipment stress testing Bidirectional simultaneous testing (C-bit parity framing) Single access point measurement architecture Power & Physical Line voltage: 100, 115, 120, or 220, 230, 240 VAC $\pm 10\%$ Power dissipation: less than 200 VA Dimensions: 213 mm H $\times$ 366 mm W $\times$ 460 mm D Weight: 9 kg Key Features Dual DS1/DS3 signal measurement from single DS3 port Bidirectional path characterization on C-bit parity systems Complete framing format flexibility for legacy and modern deployments Error injection for validation and margin testing Typical Applications DS3 transmission line commissioning and maintenance Carrier circuit acceptance testing Jitter and signal integrity analysis Interface troubleshooting and performance verification Compatibility & Integration Works with equipment using unframed, M13, and C-bit parity frame formats. Requires DS3 access point connection for measurement.

3789B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	DS3 transmission test set
Primary Rate Class	DS3 44.736 Mb/s class
Measurement Modes	Error performance pattern generation detection class
Series Family	HP 3789B
Form Factor	Transmission test set
Bit Error Measurements	Supported
Code Error Measurements Class	Supported class
Clock Reference Class	Internal and recovered clock class
Interface Levels Class	DSX3 compatible interfaces class
Remote Interface Class	HP IB class
Display Class	Front panel results display class
Operating Temperature Class	Laboratory and field telecom class
Primary Power Class	AC mains
Warmup Class	Per operating manual
Calibration Interval Class	One year class
Pattern Library Class	PRBS and framed patterns class
In Service Monitor Class	Supported class
Out Of Service Test	Supported
Alarm Detection Class	DS3 alarm indications class
Weight Class	Portable transmission test set class
Export Classification Class	Commercial telecom test class
Related Family	HP 378x digital communications testers
Operating temperature	Class: Laboratory and field telecom class

3789B Specifications

PARAMETER	VALUE
HP Agilent 3789B DS3 Transmission Test Set	Overview
Applications	DS3 facility turn-up, error performance monitoring, and digital transmission maintenance on 44.736 Mb/s class links.
Key Features	DS3 transmission test capability
HP IB control class	378x family measurement feature set
Technical Specifications	Instrument Type: DS3 transmission test set

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Laboratory and field telecom class
Operating Temperature	Class: Laboratory and field telecom class
Operating Temperature Class	Laboratory and field telecom class
Primary Power Class	AC mains
Warmup Class	Per operating manual
Calibration Interval Class	One year class
Pattern Library Class	PRBS and framed patterns class
In Service Monitor Class	Supported class
Out Of Service Test	Supported
Alarm Detection Class	DS3 alarm indications class
Weight Class	Portable transmission test set class
Export Classification Class	Commercial telecom test class
Related Family	HP 378x digital communications testers Notes From HP/Agilent 3789B DS3 transmission test set family documentation. Confirm exact interface connectors and option clocks on the unit datasheet.

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.

performance measurements. OEM family documentation positions the 3789B for North American DS3 rates with pattern generation and error analysis functions used in telecom turn-up.

Applications
DS3 facility turn-up, error performance monitoring, and digital transmission maintenance on 44.736 Mb/s class links.

Key Features
DS3 transmission test capability
Pattern generation and error detection
Telecom portable/benchtop form
HP IB control class
378x family measurement feature set

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Instrument Type	DS3 transmission test set
Primary Rate Class	DS3 44.736 Mb/s class
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Form Factor	Transmission test set
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In Service Monitor Class	Supported class
Out Of Service Test	Supported
Alarm Detection Class	DS3 alarm indications class
Weight Class	Portable transmission test set class

PARAMETER	VALUE
Export Classification Class	Commercial telecom test class
Related Family	HP 378x digital communications testers

Notes

From HP/Agilent 3789B DS3 transmission test set family documentation. Confirm exact interface connectors and option clocks on the unit datasheet.

Available from Aumictech

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

Request a quote: 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.