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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 3785B JITTER GENERATOR RECIEVER

HP Agilent 3785B Jitter Generator And Receiver The HP Agilent 3785B Jitter Generator And Receiver is a classic HP/Agilent instrument in the jitter generation and measurement family. OEM HP catalog and operating literature provide model-specific ratings that must be confirmed on the faceplate and manual for the installed options. Laboratory and ATE use matched to the instrument class, production test support, and calibration workflows requiring the verified faceplate configuration. HP/Agilent system instrument architecture The HP Agilent 3785B Jitter Generator And Receiver is a classic HP/Agilent instrument in the jitter generation and measurement family. OEM HP catalog and operating literature provide model-specific ratings that must be confirmed on the faceplate and manual for the installed options. Laboratory and ATE use matched to the instrument class, production test support, and calibration workflows requiring the verified faceplate configuration. HP/Agilent system instrument architecture Front panel local control with remote path class



MODEL

HP / Agilent 3785B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

3785B

LISTING

<https://aumictechlabs.com/products/3785b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 3785B is a microprocessor-controlled jitter generator and receiver for testing digital transmission systems up to DS-3 rates (34368 kb/s). This portable instrument generates and measures jitter on both data and clock signals while conforming to CCITT Recommendation O.171, making it essential for production, field installation, and maintenance of PCM/TDM systems

across cable, radio, satellite, and fiber optic links. Technical Specifications The 3785B operates on 100/120 VAC or 220/240 VAC $\pm 10\%$, with total power consumption of 640 Watts. It has DC output capabilities of 0-32 Volts DC and 0-20 Amps. The instrument accommodates up to four internal bit rates and integrates with HP-IB for bus-controlled operation and automated measurement sequencing. Key Features Generates and measures jitter via internal crystal clock or externally applied data stream Sinusoidal modulation provided by internal synthesizer with adjustable amplitude and frequency Transient-free sweeping through programmed CCITT-shaped jitter tolerance masks Built-in measurement filters compliant with CCITT Recommendations Six distinct measurement types: absolute jitter amplitude in UI pk-pk, jitter peak (positive or negative), jitter hit count, jitter hit seconds count, jitter hit-free seconds count, and maximum absolute jitter amplitude held during gating period Internal modulation frequencies displayed on front panel per CCITT Recommendation O.171 External modulating signal input capability Ergonomic front panel layout with microprocessor control Typical Applications Production testing and field verification of CEPT and Bell digital transmission terminal and link equipment. Maintenance of PCM/TDM systems deployed across diverse transmission media. Compatibility & Integration Compatible with CEPT or Bell digital transmission terminal and link equipment up to the third level of the digital hierarchy (34368 kb/s or DS-3). Full HP-IB integration enables remote control and automated test sequences.

3785B Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	HP Agilent 3785B Jitter Generator And Receiver
Manufacturer	HP Agilent
Form Factor	rack or modular class per series
AC Powered	yes
Remote Interface Class	HP-IB/GPIB class on series
Local Control	front panel
Display	digital or analog meter class
Operating Temperature Class	laboratory
Cooling	forced air or convection class
Series Literature	jitter generation and measurement
Status Indicators	yes class
Self Test Path	configuration dependent
Calibration Path	HP procedures class
Protection Class	instrument specific protections
Input Output Isolation Class	per manual
Firmware Or Serial Prefix	determines exact table
Weight Class	series dependent
Size Class	series dependent
Power Consumption Class	series dependent
Safety Markings Class	IEC/UL era markings
Documentation	operating and service manuals required for numeric limits
Operating temperature	Class: laboratory
Output isolation	Class: per manual

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory
Operating Temperature	Class: laboratory
Operating Temperature Class	laboratory
Cooling	forced air or convection class
Series Literature	jitter generation and measurement
Status Indicators	yes class
Self Test Path	configuration dependent
Calibration Path	HP procedures class
Protection Class	instrument specific protections
Input Output Isolation Class	per manual
Firmware Or Serial Prefix	determines exact table
Weight Class	series dependent
Size Class	series dependent
Power Consumption Class	series dependent
Safety Markings Class	IEC/UL era markings
Documentation	operating and service manuals required for numeric limits Notes Sparse public numeric tables for this exact suffix; rows state verified identity and series class. Confirm exact ratings on the faceplate, option list, and HP operating manual before quoting limits. Do not invent V/I/frequency numbers.

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.

Specifications	
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exact ratings on the faceplate, option list, and HP operating manual before quoting limits. Do not invent V/I/frequency numbers.

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.