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Data Sheet

August 14, 2026

ANRITSU

Anritsu ME3401A PCM Channel Analyzer

Anritsu ME3401A Digital Transmission Analyzer The Anritsu ME3401A is a portable PCM digital transmission analyzer for DS1, DS1C, DS2, and DS3 networks. OEM Anritsu product literature and TechEyesOnline catalog specs list Bell-compliant clocks at 1.544, 3.152, 6.312, and 44.736 MHz, bipolar input tolerances, unipolar 1 to 50 MHz input, five error-detection modes, seven measurement functions, and optional jitter, GPIB, and RS-232C. Commissioning and maintenance of digital radio, fiber, and multiplexers; live-traffic error performance per ITU-T G.821; and automated DS1 to DS3 BER testing. The Anritsu ME3401A is a portable PCM digital transmission analyzer for DS1, DS1C, DS2, and DS3 networks. OEM Anritsu product literature and TechEyesOnline catalog specs list Bell-compliant clocks at 1.544, 3.152, 6.312, and 44.736 MHz, bipolar input tolerances, unipolar 1 to 50 MHz input, five error-detection modes, seven measurement functions, and optional jitter, GPIB, and RS-232C. Commissioning and maintenance of digital radio, fiber, and multiplexers; live-traffic error performance per ITU-T G.821; and automated DS1 to DS3 BER testing.



MODEL

Anritsu ME3401A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ME3401A

LISTING

<https://aumictechlabs.com/products/me3401a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu ME3401A is a versatile Digital Transmission Analyzer designed for the testing, evaluation, and monitoring of DS1, DS1C, DS2, and DS3 systems and networks. This instrument is

engineered for high performance in troubleshooting and maintenance applications across digital radio, fiber optic systems, and digital multiplexers. Its design emphasizes portability and ease of operation, incorporating a built-in printer for immediate output of measurement results and automatic recording of error or alarm occurrences. The ME3401A is capable of performing a suite of error detection and measurement functions, as well as jitter modulation and measurement, and multiplexer testing.

Technical Specifications

System Compatibility: DS1 systems and networks
DS1C systems and networks
DS2 systems and networks
DS3 systems and networks

Measurement Functions: Error Rate Error Count Error Seconds % Error Free Seconds Threshold Error Seconds Error Performance Data Alarm Seconds

Error Detection Functions: Bit error detection Parity error detection Frame error detection Bipolar violation detection CRC-6 error detection

Jitter Modulation and Measurement: Built-in modulation signal generation Demodulated jitter output Jitter modulation and measurement capabilities (optional)

Multiplexer Test Functions: Demultiplex function Through Data function Multiplexer test functions

Performance Monitoring: Live traffic performance measurement Error performance measurement per ITU-T G.821 Error rate or error count distribution measurement Automatic recording of time and content of errors/alarms

Conformance: Waveforms and framing formats conform to Telcordia Technologies (formerly Bellcore) standards.

Interfaces

- * GPIB Interface: For integration into automatic measuring systems.
- RS-232C Interface: For remote data collection via modem or direct connection.

Physical Characteristics

- * Portable design for ease of transport and field use. Built-in printer for on-site documentation of results.

Operational Features

- * User-friendly interface for straightforward operation. Automatic recording of measurement results, time, and error/alarm details.

Why Choose Aumictech for Anritsu ME3401A? At Aumictech, we specialize in supplying high-end digital transmission analysis equipment. Whether you need solid error detection, precise jitter analysis, or comprehensive system monitoring, our team ensures the Anritsu ME3401A delivers maximum performance for your network testing and maintenance applications.

Features & description

From manufacturer datasheet

Built-in printer with optional GPIB or RS-232C

Technical Specifications Ds3 Clock Frequency: 44.736 MHz Ds2 Clock Frequency: 6.312 MHz Ds1c Clock Frequency: 3.152 MHz Ds1 Clock Frequency: 1.544 MHz Bipolar Input Ds3 Frequency: 44.736 MHz plus or minus 4.4 kHz Bipolar Input Ds2 Frequency: 6.312 MHz plus or minus 630 Hz Bipolar Input Ds1c Frequency: 3.152 MHz plus or minus 310 Hz Bipolar Input Ds1 Frequency: 1.544 MHz plus or minus 250 Hz Unipolar Input Frequency Range: 1 to 50 MHz Ds1 Framing Modes: D4 and ESF Frame Format Compliance: Bell / Telcordia Error Detection Modes: bit parity frame bipolar violation CRC-6 Measurement Functions Count: 7 Error Rate Measurement: yes Error Count Measurement: yes Error Seconds Measurement: yes Percent Error Free Seconds: yes Threshold Error Seconds: yes Error Performance Data: ITU-T G.821 / CCITT G.821 Alarm Seconds Measurement: yes Jitter Modulation Option: available Jitter Measurement Option: available Demultiplex Function: yes Through Data Function: yes Built In Printer: yes Remote Interface Options: GPIB or RS-232C Form Factor: portable digital transmission analyzer Mux Test Functions: yes Live Traffic Measurement: wide input range with frame error detection Notes From Anritsu ME3401A Digital Transmission Analyzer product page and TechEyesOnline ME3401A catalog specification lines for clock and bipolar/unipolar inputs. Confirm installed options (jitter, GPIB, RS-232C, printer) on the unit configuration.

ME3401A Characteristics / Specifications

PARAMETER	VALUE
Ds3 Clock Frequency	44.736 MHz
Ds2 Clock Frequency	6.312 MHz
Ds1c Clock Frequency	3.152 MHz
Ds1 Clock Frequency	1.544 MHz
Bipolar Input Ds3 Frequency	44.736 MHz plus or minus 4.4 kHz
Bipolar Input Ds2 Frequency	6.312 MHz plus or minus 630 Hz
Bipolar Input Ds1c Frequency	3.152 MHz plus or minus 310 Hz
Bipolar Input Ds1 Frequency	1.544 MHz plus or minus 250 Hz
Unipolar Input Frequency Range	1 to 50 MHz
Ds1 Framing Modes	D4 and ESF
Frame Format Compliance	Bell / Telcordia
Error Detection Modes	bit parity frame bipolar violation CRC-6
Measurement Functions Count	7
Error Rate Measurement	yes
Error Count Measurement	yes
Error Seconds Measurement	yes
Percent Error Free Seconds	yes
Threshold Error Seconds	yes
Error Performance Data	ITU-T G.821 / CCITT G.821
Alarm Seconds Measurement	yes
Jitter Modulation Option	available
Jitter Measurement Option	available
Demultiplex Function	yes
Through Data Function	yes
Built In Printer	yes

PARAMETER	VALUE
Remote Interface Options	GPIB or RS-232C
Form Factor	portable digital transmission analyzer
Mux Test Functions	yes
Live Traffic Measurement	wide input range with frame error detection

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 per ITU-T G.821; and automated DS1 to DS3 BER testing.	
Key Features	
DS1 DS1C DS2 and DS3 rates	
Five error detection modes including CRC-6	
Seven error performance measurements	
Optional jitter modulation and measurement	
Built-in printer with optional GPIB or RS-232C	
Technical Specifications	
Technical Specifications	
PARAMETER	VALUE
Ds3 Clock Frequency	44.736 MHz
Ds2 Clock Frequency	6.312 MHz
Ds1c Clock Frequency	3.152 MHz
Ds1 Clock Frequency	1.544 MHz
Bipolar Input Ds3 Frequency	44.736 MHz plus or minus 4.4 kHz
Bipolar Input Ds2 Frequency	6.312 MHz plus or minus 630 Hz
Bipolar Input Ds1c Frequency	3.152 MHz plus or minus 310 Hz
Bipolar Input Ds1 Frequency	1.544 MHz plus or minus 250 Hz
Unipolar Input Frequency Range	1 to 50 MHz
Ds1 Framing Modes	D4 and ESF
Frame Format Compliance	Bell / Telcordia
Error Detection Modes	bit parity frame bipolar violation CRC-6
Measurement Functions Count	7
Error Rate Measurement	yes
Error Count Measurement	yes
Error Seconds Measurement	yes
Percent Error Free Seconds	yes
Threshold Error Seconds	yes
Error Performance Data	ITU-T G.821 / CCITT G.821
Alarm Seconds Measurement	yes
Jitter Modulation Option	available
Jitter Measurement Option	available

PARAMETER	VALUE
Demultiplex Function	yes
Through Data Function	yes
Built In Printer	yes
Remote Interface Options	GPIB or RS-232C
Form Factor	portable digital transmission analyzer
Mux Test Functions	yes
Live Traffic Measurement	wide input range with frame error detection

Notes

From Anritsu ME3401A Digital Transmission Analyzer product page and TechEyesOnline ME3401A catalog specification lines for clock and bipolar/unipolar inputs. Confirm installed options (jitter, GPIB, RS-232C, printer) on the unit configuration.

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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NIST-traceable calibration · SAM registered ·
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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.