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Data Sheet

August 13, 2026

JDS UNIPHASE

JDS Uniphase ANT-5

JDSU / Acterna ANT-5 SDH PDH SONET ATM Access Tester The JDSU (Acterna / WWG) ANT-5 is a portable, battery-operated field tester for commissioning and maintaining PDH, SDH, SONET, and ATM access networks. Electrical interfaces cover DS1, E1, E3, DS3, E4, STM-0e, and STM-1e. Optional G.957 optics add STM-1/OC-3, STM-4/OC-12, and STM-16/OC-48 at 1310 nm and/or 1550 nm (to 2.5 Gbps). Terminated, in-line monitor, and intrusive thru modes plus an ECL/NRZ monitor port support in-service work. Autoconfig detects line rate, structure, and mapping. Compact Flash, Ethernet, and V.24 result transfer. The JDSU (Acterna / WWG) ANT-5 is a portable, battery-operated field tester for commissioning and maintaining PDH, SDH, SONET, and ATM access networks. Electrical interfaces cover DS1, E1, E3, DS3, E4, STM-0e, and STM-1e. Optional G.957 optics add STM-1/OC-3, STM-4/OC-12, and STM-16/OC-48 at 1310 nm and/or 1550 nm (to 2.5 Gbps). Terminated, in-line monitor, and intrusive thru modes plus an ECL/NRZ monitor port support in-service work. Autoconfig detects line rate, structure, and mapping. Compact Flash, Ethernet, and V.24 result transfer. Installation and commissioning of STM-0e/1/4/16, OC-3/12/48, E4, DS3, E3, E1, and T1 links; PDH mux/demux to 64 kbps; ATM over PDH/SDH/SONET including 3G and DSLAM; APS and service-disruption; round-trip delay; overhead and pointer analysis.



MODEL

**JDS Uniphase
ANT-5**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

ANT-5

LISTING

<https://aumictechlabs.com/products/ant-5-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The JDS Uniphase ANT-5 is a handheld network testing instrument for field technicians performing installation, maintenance, and troubleshooting of telecommunications networks. It delivers comprehensive analysis across SDH, SONET, PDH, and ATM digital links with integrated BERT, traffic generation, and optical power measurement capabilities. The compact, rugged design and extended battery life enable sustained on-site operation across remote and urban deployment environments.

Technical Specifications

Supported Interfaces and Rates

SDH/SONET: STM-1/OC-3, STM-4/OC-12, STM-16/OC-48. Concatenated mappings include VC-4-4C/OC-12C and VC-4-16C/OC-48C. AU-3/VC11/SONET VT mappings supported.

PDH: DS1 (1.544 Mbps), E1 (2.048 Mbps), DS3 (44.736 Mbps), E3 (34.368 Mbps), E4 (139.264 Mbps), and Nx64 kbps configurations.

ATM: Operation up to STM-4c rates over DS1, E1, E3, DS3, E4, VC-4/OC-12, VC-4c/OC-12c, and STS-1 SPE.

Optical: Dual wavelengths at 1310 nm and 1550 nm for STM-1/OC-3, STM-4/OC-12, and STM-16/OC-48 rates.

Electrical Interfaces

G.703 transmitters provide BNC 75 Ω unbalanced outputs at 2048 kbps and 34,368 kbps (HDB3), 44,736 kbps (B3ZS), and 139,264 kbps plus 155,520 kbps (CMI). RJ48 120 Ω balanced output available at 2048 kbps (HDB3). G.703 receivers accept BNC 75 Ω unbalanced inputs. T1 Bantam interface and STM-0e/1e support included.

Key Features

BERT testing per G.821, G.826, G.828, G.829, ANSI, M.2100, M.2101 PDH Sa bit generation with flexible MUX/DEMUX and M13 framing SOH/POH generation and analysis; path trace and TCM; pointer and K-byte capture ATM CBR/VBR traffic generation, cell BER, O.191 QoS, OAM analysis, AAL2/AAL5 support Optical power and signal offset measurement Non-intrusive monitoring via ECL/NRZ port Tabular and graphical event recording Weight: 2.2 kg (4.85 lbs)

Typical Applications

Network installation verification, in-service link monitoring, tributary analysis, ATM circuit troubleshooting, and signal quality assessment in SDH/SONET and PDH hierarchies.

Features & description

From manufacturer datasheet

Features

- Handheld field unit with color TFT GUI (SETUP / RESULTS / ACTIONS) • Built-in electrical PDH/SDH plus optional dual-wavelength optics to STM-16 • Autoconfig of rate, structure, and mapping; labelled LED alarm history • Performance analysis to G.821, G.826, G.828, G.829, M.2100, M.2101, and ANSI • Compact Flash software field upgrade; remote GUI over Ethernet • Typical 3 hour battery operation with AC-fail continue-on-battery

ANT Characteristics / Specifications

PARAMETER	VALUE
Model	ANT-5
Manufacturer	JDSU / Acterna / Wandel and Goltermann
Instrument Type	Portable SDH PDH SONET ATM access tester
Alias	ANT-5; ANT5; BN4565/50
Electrical Unbalanced	BNC 75 ohm
E1 Balanced	RJ48 120 ohm
T1 Connector	Bantam 100 ohm
T1 Bit Rate	1544 kbps
T1 Line Code	AMI or B8ZS
E1 Bit Rate	2048 kbps HDB3
E3 Bit Rate	34368 kbps HDB3
DS3 Bit Rate	44736 kbps B3ZS
STM0e Bit Rate	51840 kbps B3ZS
E4 STM1e Bit Rate	139264 and 155520 kbps CMI
Optical Line Rates	155.52, 622.08, 2488.32 Mbps (options)
Optical Wavelengths	single 1310 nm or dual 1310 and 1550 nm
Optical Line Code	scrambled NRZ
Optical Connectors	FC-PC
STM1 SR Tx Power	-8 to -15 dBm at 1310 nm
STM1 LR Tx Power	+2 to -4 dBm at 1550 nm
STM16 LR Tx Power	+3 to -3 dBm (BN4565/91.16)
Optical Rx Range	-8 to -28 dBm typical (1100 to 1600 nm)
Optical Power Resolution	1 dB
ECL Monitor Input	SMA 50 ohm, 0.2 to 1 V p-p scrambled NRZ
Internal Clock Stability	+/-3.6 ppm

PARAMETER	VALUE
Tx Bit Rate Offset	+/-100 ppm in 0.1 ppm steps
Ext Clock Reference	1544 or 2048 kHz; 1544 or 2048 kbps HDB3
PRBS Patterns	2 ¹¹ -1 through 2 ³¹ -1 and inverted; QRSS20
User Word	16 bits
Pointer Frame Rate	100 to 8000
Frequency Resolution	0.1 ppm
APS Pass Fail Window	10 to 2000 ms, 1 ms resolution
RTD Resolution	+/-1 us (except E1 +/-100 us)
RTD Range	10 s
Display	color TFT, 320 × 240 pixels
Measurement Timer	1 second to 99 days
Alarm Resolution	100 ms
Internal Result Memory	up to 10000 entries
Ethernet Port	RJ-45 10BaseT TCP/IP
Serial Port	V.24 / RS232
CF Card	Typeland II
AC Adapter	100 to 240 V, 50/60 Hz
Battery Runtime	typically 3 hours
Operating Temperature	+5 C to +45 C
Storage Temperature	-20 C to +60 C
Dimensions	275 × 197 × 76 mm
Weight	2.2 kg
Safety Class	IEC 1010-1, pollution degree 2, installation category II
Base Part	BN4565/50

General Specifications & Supplementary Characteristics

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Storage temperature	20 C to +60 C
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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 analysis to G.821, G.826, G.828, G.829, M.2100, M.2101, and ANSI

- Compact Flash software field upgrade; remote GUI over Ethernet
- Typical 3 hour battery operation with AC-fail continue-on-battery

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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.