Advanced Network Tester "Extended"
SDH and SONET version

ANT-20E

WIN '95 ®

NEW

- Jitter O.172
- OC-48c/STM-16c BERT

Supplement to ANT-20 data sheet

ANT-20E

for analyzing digital communications systems

The "extended" ANT-20: Ready for the future

The ANT-20E includes **3 additional slots,** considerably extending the range of facilities offered by the ANT-20. This makes it ideal for future applications involving a combination of measurement functions.

Also **new:** Generation and analysis of **jitter** at **2.5 Gbit/s.** The combination of mux/demux functions with jitter generation and analysis at up to STM-16/OC-48 in a **single, portable instrument** is unique.

This tailor-made solution for installation and acceptance testing means that no additional equipment is needed for jitter tests, ATM analysis or applications in the gigabit range.

The ANT-20E uses Windows 95 to give you all the advantages of this modern operating system.

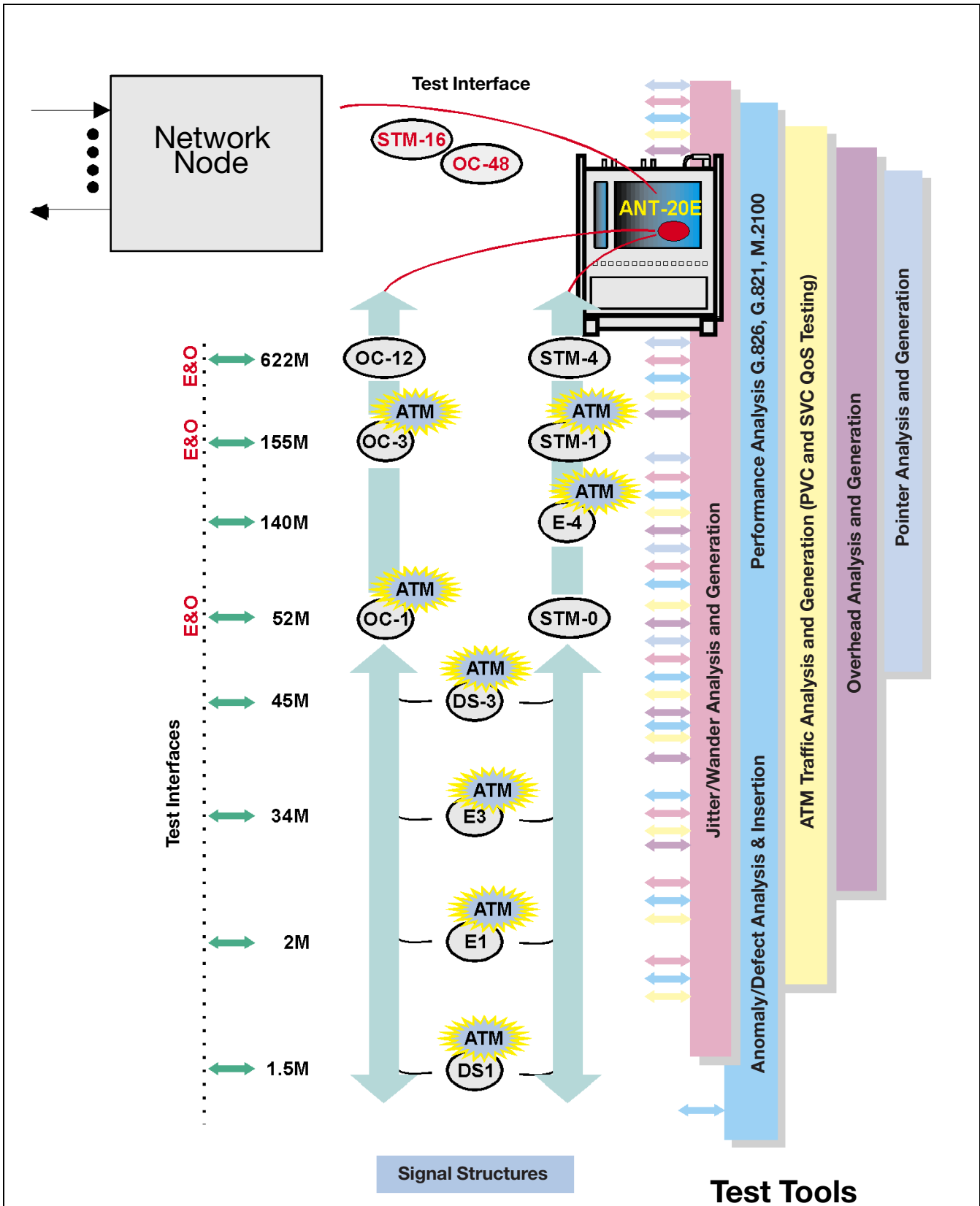| Now with: | • **DS1/E1 to STM-16c/OC-48c and jitter up to 2.5 Gbit/s in one instrument** |
	• **Windows 95**
	• **STM-16/OC-48 jitter O.172**
	• **ATM PVC/SVC Quality of Service Testing**

The same concept is used for the ANT-20 "extended" as for the ANT-20, so operation and measurement methods are identical and results are reproducible. The ANT-20E has the same excellent features as the ANT-20, such as:

- **From 64 kbit/s up to 2.5 Gbit/s**
  - All mapping functions can be set
  - Complete resolution of structures even across different hierarchies (ATM, SONET, SDH, PDH)

- **Test automation using Test Sequencer and comprehensive test case library**
  - For National Instruments LabWindows/CVI Test Executive
  - Reduces cost of testing

- **Superb operating concept using Microsoft® Windows™**
  - Full color touchscreen
  - Saves time, no training required

- **Built-in PC provides extended functions**
  - Comprehensive test records
  - File export
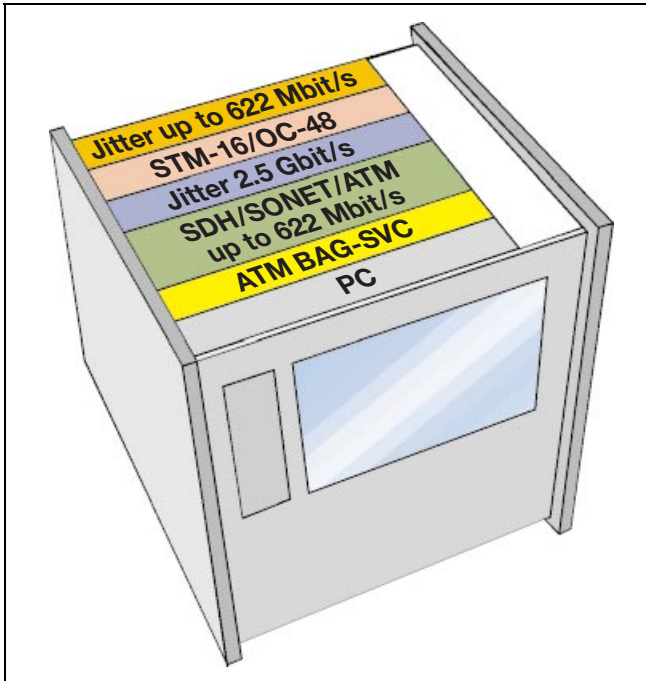 - Windows-style help function

Network Node

Test Interface

STM-16
OC-48

ANT-20E

Test Interfaces

E&O	622M
E&O	155M
	140M
E&O	52M
	45M
	34M
	2M
	1.5M

OC-12 — STM-4
ATM OC-3 — ATM STM-1
— ATM E-4
ATM OC-1 — STM-0
ATM DS-3
ATM E3
ATM E1
ATM DS1

Signal Structures

Jitter/Wander Analysis and Generation

Anomaly/Defect Analysis & Insertion

Performance Analysis G.826, G.821, M.2100

ATM Traffic Analysis and Generation (PVC and SVC QoS Testing)

Overhead Analysis and Generation

Pointer Analysis and Generation

Test Tools

The ANT-20E resolves signal structures and analyzes them down to the lowest layers, even at 2.5 Gbit/s. Other analysis and generator functions are available at the same time: Jitter, performance, ATM, overhead, pointer.

ANT-20E configurations

Versions
The ANT-20E is available in two basic versions: SDH and SONET.
Each version provides access (via options) to all standard
mappings in the specific technology as well as to mixed
structures (e.g. DS1 in STM-N).
It can be expanded into an ATM tester just like the ANT-20.

Upgrade
Wandel & Goltermann offers an upgrade of ANT-20 instruments
from series E onwards to give existing users of the ANT-20
the opportunity of using the extended facilities provided by the
ANT-20E.
Contact your local service center for details.

**A roller case protects the ANT-20E and simplifies transport
of the instrument**

Specifications of the Advanced Network Tester   **ANT-20E**

The specifications of the ANT-20E are identical to those of the ANT-20; refer to the ANT-20 SDH version or ANT-20 SONET version data sheets for details.	**General specifications** Dimensions (w × h × d), approx. . . . . 320×350×280 mm / 12.6″×13.8″×11.0″ Weight . . . . approx. 15 kg / 33 lbs

Ordering information

ANT-20E Advanced Network Tester, SDH version	BN 3035/21	Options	
		Touchscreen	BN 3035/93.11
includes color screen and one STM-1 mapping; please select from BN 3035/90.0x range (see ANT-20 SDH version data sheet)		CPU RAM expansion to 32 MB	BN 3035/92.15
		O.172 Wander Generator 2488 Mbit/s requires BN 3035/90.81 and /90.88	BN 3035/90.87
		O.172 Jitter Generator/Analyzer 2488 Mbit/s	BN 3035/90.88
ANT-20E Advanced Network Tester, SONET version	BN 3035/22	O.172 Wander Analyzer 2488 Mbit/s requires BN 3035/90.88	BN 3035/90.89
includes color screen and one STS-1 mapping; please select from BN 3035/90.1x range (see ANT-20 SONET version data sheet)		ATM Broadband Analyzer/Generator (BAG)	BN 3035/90.80
		All available ANT-20 options can be fitted to the ANT-20E. See ANT-20 data sheets for ordering information.	
		Special accessory Transport case for ANT-20E	BN 3035/92.03