



Setting the Standards

Data Transmission Analyzer



Description	ETA-801A Data Transmission Analyzer, is the necessary tool for daily maintenance and troubleshooting tasks. It fulfills E1 in-service monitoring as well as BER testing from 50b/s to 2048kb/s with supported interfaces of G.703, V.24/RS232, V.35, V.36/RS449, X.21, EIA530/530A. Its characteristic remote monitoring function makes it ideal for users to easily perform real-time monitoring to the test unit through certain software under Windows environment.
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| Features and Benefits | <ol style="list-style-type: none">1. 3.5" Color TFT LCD2. Comprehensive E1 circuit testing3. Various errors insertion and detection, such as bit, Code, FAS, CRC4. Use PC to perform the remote control of the test set through Ethernet5. Large capacity Li-ion battery guarantees 8 hours operation6. Large data storage, 5000 records |
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| Applications | <ul style="list-style-type: none">● E1 interface testing● V Series Interfaces Testing● 64K Interface Testing● RJ45 Interfaces Testing |
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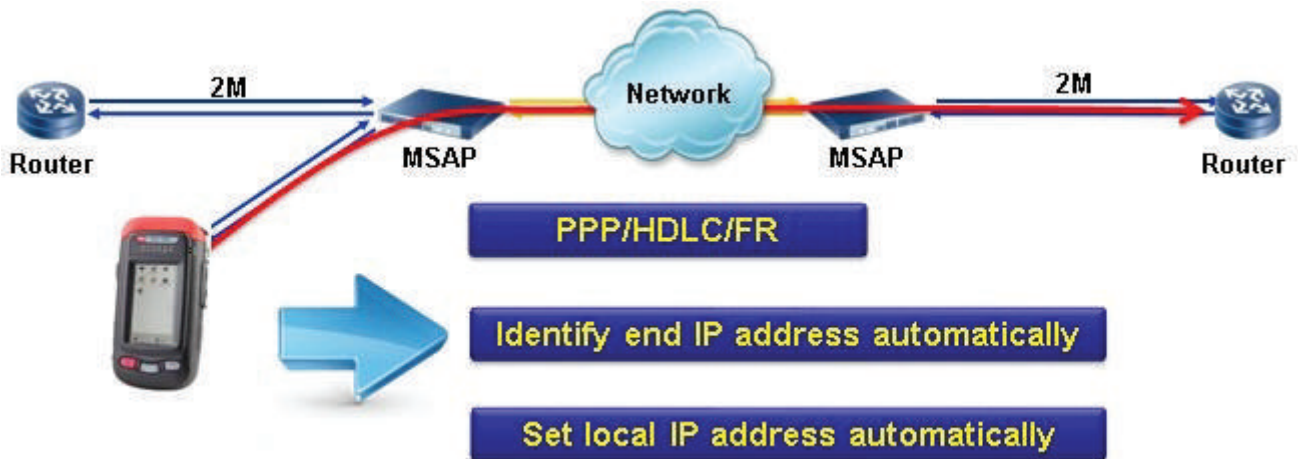
Data Transmission Analyzer



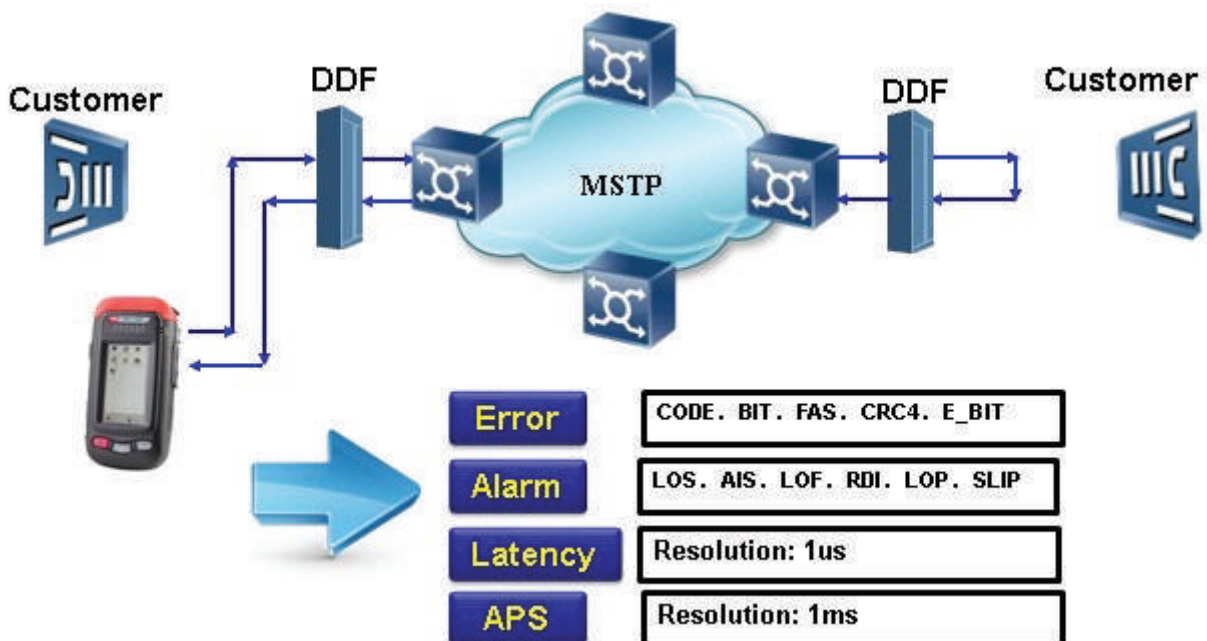
	Test	Function
Functions	E1 interface testing	Defects and abnormal: Out of service or in-service testing, error characteristics testing
		Loop delay: Precision reaches 1us
		Switch time: The time of switching from the main channel to standby channel
		Audio testing: Test if there is problem, such as distortion, etc, existing in PCM or SPC while stimulating the conversion between voice signal and digital signal
		Voice monitoring: Scan channel to confirm the busy of 64K channel monitoring line which is being used
		Pulse mask: Test if the E1 waveform satisfy G.703 standard
V series interfaces testing	Defects and abnormal: Out of service or in-service testing, error characteristics testing	
64K Interface Testing	Defects and abnormal: Out of service or in-service testing, error characteristics testing	
RJ45 Interfaces Testing	PING: Test network connectivity	

Data Transmission Analyzer Applications

Leased line circuit fault interface diagnosis—E1 ping testing

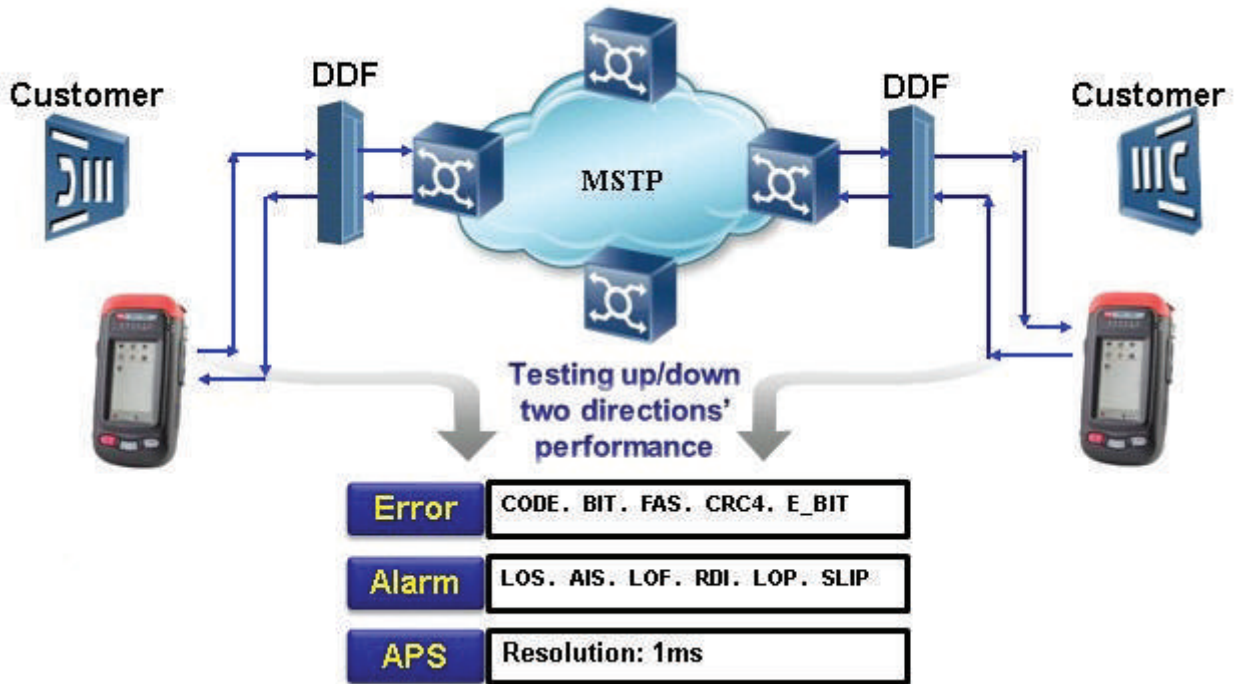


2M Circuit Opening- E1 Off-line loopback testing

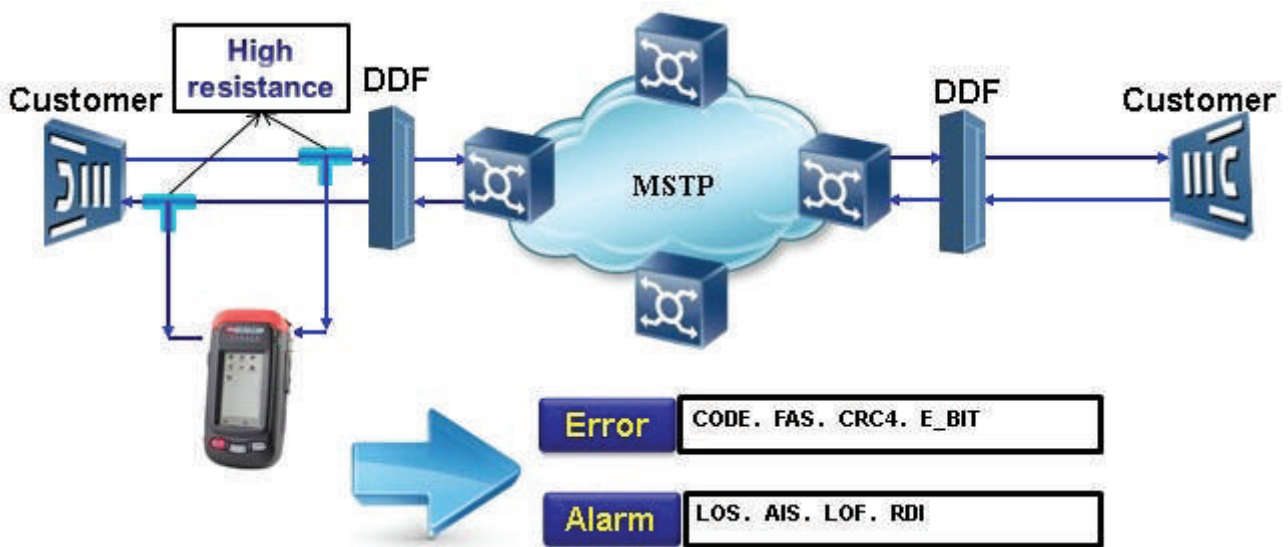


Data Transmission Analyzer Applications

2M Circuit Opening—E1 offline end-to-end testing

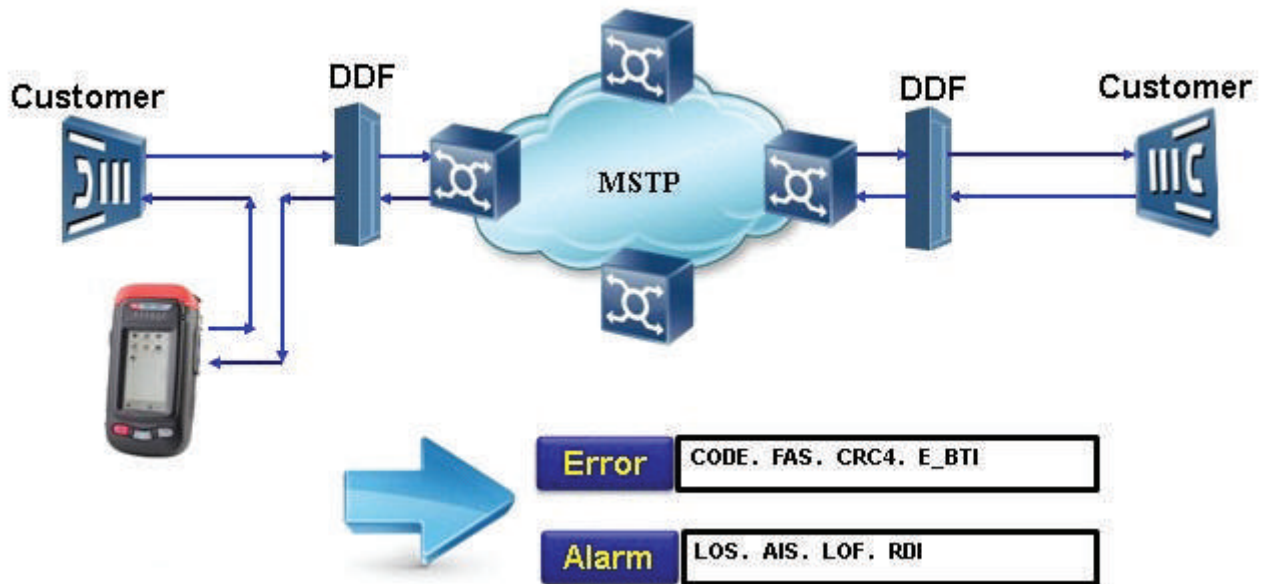


Network maintenance—E1 online testing

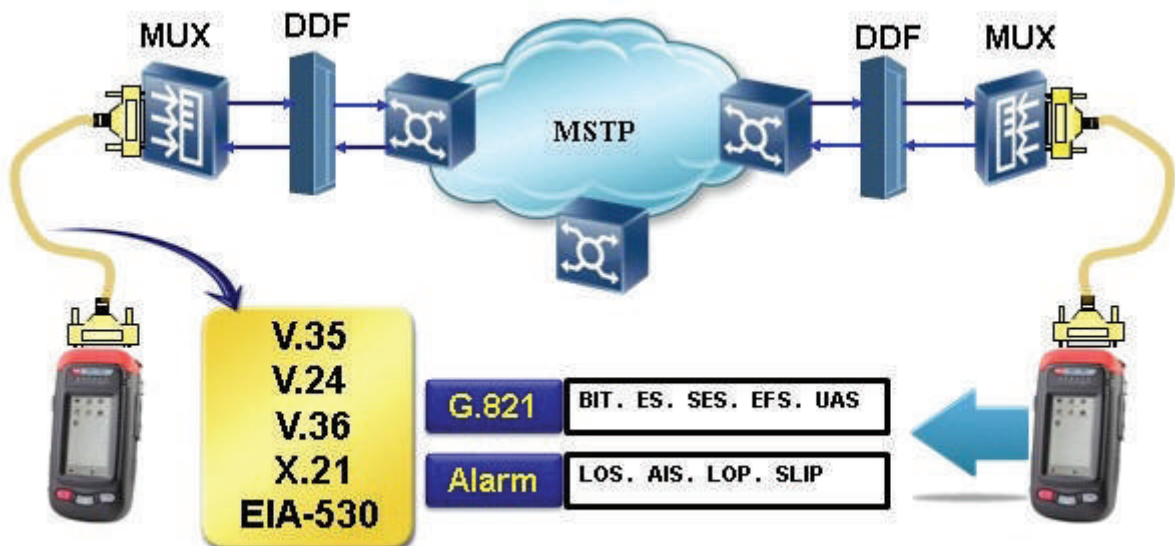


Data Transmission Analyzer Applications

Network maintenance—E1 pass through test

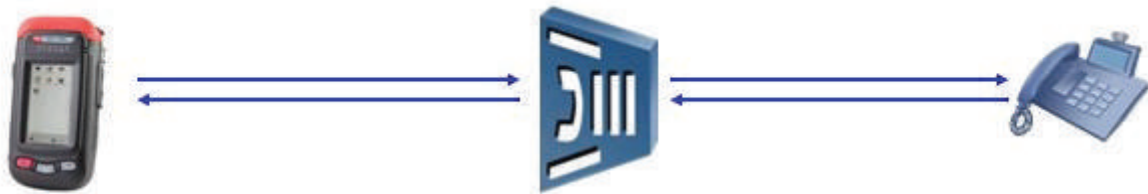


Network maintenance—V series interfaces testing



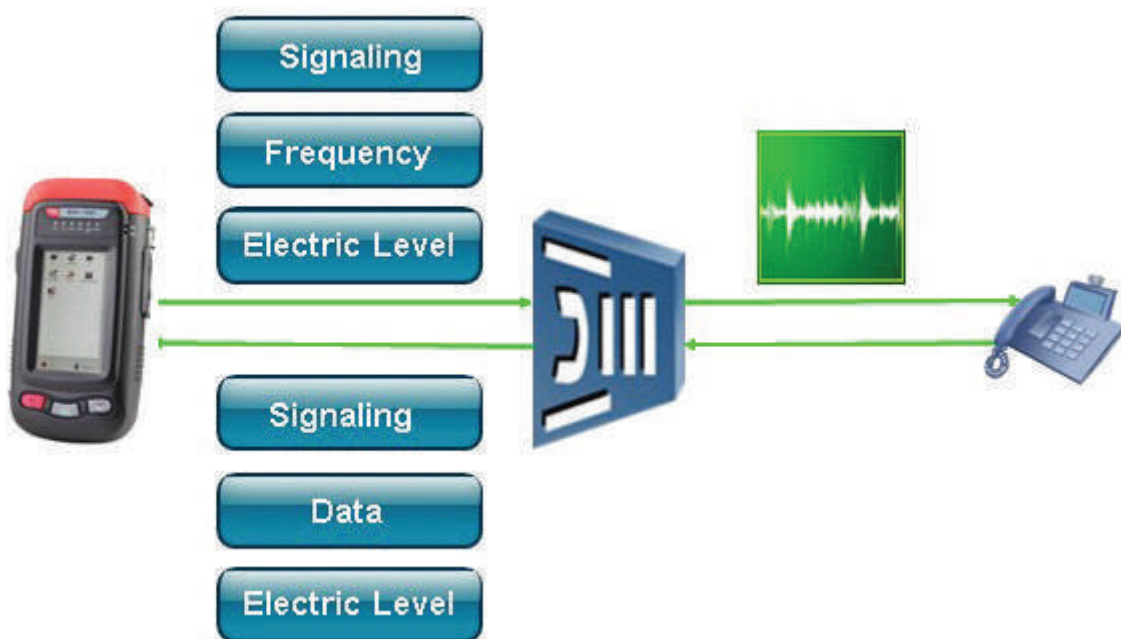
Data Transmission Analyzer Applications

Test occupied channel—Voice Monitoring

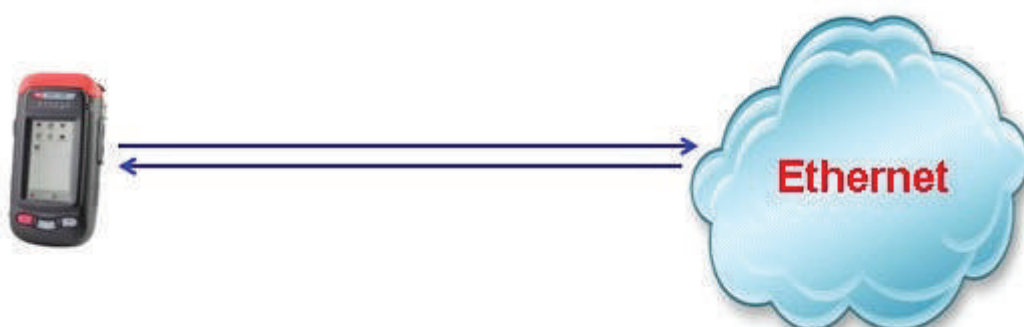


Scan every 64K channel to monitor line's busy or free.

Test equipment A/D transfer ability—Audio Testing



Verify Ethernet Connectivity—Ping testing



Data Transmission Analyzer



Ordering Information	Description	Part Number
	Data Transmission Analyzer	ETA-801A
Packaging	Description	
	Cardboard box, 1 unit per box	
Technical Characteristics	Parameter	Value
	Internal clock	2048KHz \pm 10 ppm
	Signal code	HDB3 / AMI
	Signal interface	ITU-T G.703
	Test pattern	PRBS 2n-1 (n=6, 9, 11, 15, 20, 23)
	Tx	BNC 75 Ω unbalanced, RJ48 120 Ω balanced
	Rx	BNC 75 Ω unbalanced / high impedance >2K Ω RJ48 120 Ω balanced / high impedance >2K Ω
	Interfaces	RJ45 port, DC power
	Data storage	5,000 records
	Power supply	5Ah Lithium battery (continuing working 8 h)
Physical Characteristics	Parameter	Value
	Dimensions	190 mm x 108 mm x 50 mm
	Weight	1.2 Kg
Mechanical Characteristics	Parameter	Value
	Operating temperature	-10 ~ 50°C
	Storage temperature	-20 ~ 70°C
	Relative humidity	10 ~ 90 %



Oxin Group S.A.

Head-office: 5, bd du General Martial Valin,
75736 Paris Cedex 13 - France

Web: www.OxinGroup.net

E-mail: info@oxingroup.net

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