

## XG2128 E1 BER Tester

XG2128 E1 BER tester is such a small and multi-functional handheld E1 line test instrument, specially designed for E1 PCM line access, maintenance, checking and acceptance. It provides BER test, alarm analysis, signaling analysis etc.. It can be extensively used in R&D, production, installation and maintenance of SDH, PDH, PCM, Data Protocol Converter. It is a useful tool for faster problem solution.



### **Basic Functions**

- 120Ω and 75Ω line interfaces
- HDB3 and AMI line codes
- Out-of-service framed and unframed testing
  - ✓ 2Mb/s, N<sub>i</sub>64Kb/s BER testing
  - ✓ Frame data and alarm monitoring
  - ✓ Clock slip measurement
- Frequency and level measurement
- Clock source: Internal, Interface
- Testing pattern: PRBS, Fix Code, 16-BIT User Word
- Error insertion: Single and Fixed Rate
- Real-time transmit circuit status indication: open/short
- Manual and auto-timer measurement
- Performance analysis according to G.821, G.826, and M.2100
- Test results uploaded, conserved and printed by TestManagerPro software

### **Option**

- In-service framed and unframed testing
  - ✓ Hi-Z and through mode testing
  - ✓ CODE, FAS, CRC4, E-BIT BER testing
  - ✓ Frame data and timeslot activity monitoring
  - ✓ CAS and CCS signaling monitoring

### **Main Features**



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- Handheld and smart designed for easy-to-use
- High resolution backlight LCD
- Smart navigation mode display
- Self-check and keyboard testing function
- Extensive error and alarm generation, detection and indication
- Analysis of alarm and error events in histogram
- Up to 99 days; continuous test performance
- Save/Recall of up to 7 user-defined configurations and 10 groups of results
- Up to 8 hours; working from a single battery charge
- Built-in Li rechargeable batteries and smart charger circuit

Item	QTY	Item	QTY
XG2128 E1 BER Tester	1	TestManagerPro ( CD )	1
AC Power Adaptor	1	Waterproof Package	1
75 ohm Unbalanced Test Cable	2	User;s Manual	1
120 ohm Balanced Test Cable	1	Quality Certificate Card	1
USB Communication Cable	1	Maintenance Card	1
Rechargeable Li Battery	1	Packing List	1

- Test results uploaded, conserved and printed by TestManager software via a USB interface connected to PC

## Configurations

## Specifications

Item	Description
Internal Clock	2048Kb/s ; 10ppm
Line Interfaces	75Ω (Unbalanced), 120Ω (Balanced); *High Input Impedance >2KΩ
Line Code	HDB3, AMI
Frame Type	Unframed, PCM30, PCM30CRC, PCM31, PCM31CRC
Level Measurement	-43dB ~ -2.5dB
Tx Clock Source	Internal, Interface



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Frequency Measurement	Accuracy: $\pm 1\text{Hz}$	
Offset Measurement	Accuracy: $\pm 1\text{ppm}$ Range: $-999\text{ppm} \sim +999\text{ppm}$	
Test Patterns	PRBS	$2^{23}-1, 2^{15}-1, 2^{11}-1, 2^9-1$
	Fixed Code	1111, 0000, 1010
	16-BIT	User Programmable Word
Alarm Indications	Signal Loss, AIS, Frame Loss, MFrame loss, Pattern Loss, Remote Alarm, Errors, Low Battery	
Error Insertion	Type: BIT, FAS, CODE, CRC4, E-BIT	
	Single, OFF, Fixed Rate: 10-2, 10-3, 10-4, 10-5, 10-6, 10-7	
Performance Analysis	ITU-T G.821, G.826 and M.2100	
Serial Port	USB Connector	
Rechargeable Batteries	7.4V Li battery, continuous working for 8 hours	
Recharging Time	Approx. 2 hours	
Power supply	Input: 100V ~ 240VAC, 50/60Hz Output: 12VDC /1.5A	
TestManagerPro	Operating System: WIN98/ME/2000/NT/XP	
Dimensions	L W H 230mm 72 116mm 33mm	
Weight	Approx.0.5kg	

Remark: \* means option