

E1 BER Tester with Color LCD

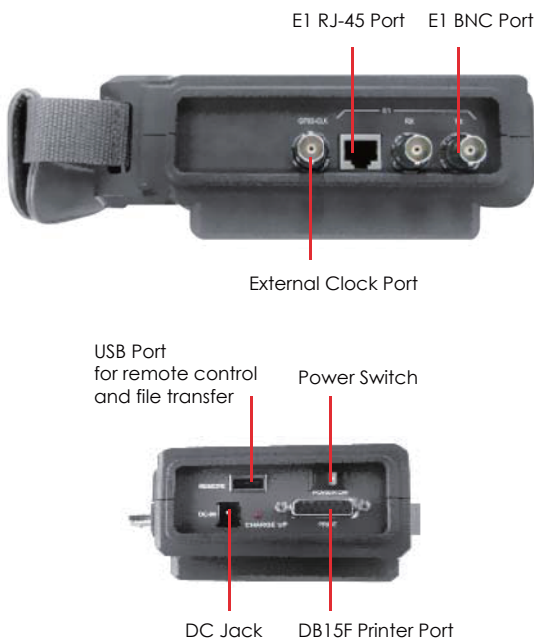
HCT-BERT/E1



The HCT-BERT/E1 tester is a compact, color-LCD, graphic-user-interface, single hand E1 Bit error rate tester designed for field use in error testing E1 (2.048Mbps) lines. The HCT-BERT/E1 tester provides a variety of E1 line statuses, transmission performance testing (BERT) and monitoring. On the E1 line, the HCT-BERT/E1 may be used as a generator or receiver.

Features

- Color LCD display graphic mode
- USB port for remote control
- Results Report
- Support G.821/826, M.2100 BERT analysis
- Sa bits setup and monitor
- Internal Memory storage of test result; Direct display on LCD screen
- Print out via Parallel Printer port
- Portable for field use
- Upgradeable for advanced features
- Rechargeable battery with battery low indicator
- Supports CRV & BPV performance analysis
- Available for E1 BERT analysis



Specifications

E1 interface

- 1). E1 Receiving Interface
 - Line code: HDB3/AMI
 - Pulse feature: ITU G.703
 - Dithering tolerance: ITU G.823
 - Input port: BNC (non-balance), RJ45 (balance)
 - Input mode: Impedance: 75ohm (unbalance), 120ohm (balance)
 - Bridging mode: Impedance > 1000 ohm
- 2). E1 Transmission Interface
 - Line code: HDB3/AMI
 - Pulse feature: ITU G.703
 - Pulse amplitude: Nominal 2.37V for BNC 75 ohm
Nominal 3.00V for RJ45 120 ohm
 - Zero amplitude: 0.1 V at max
 - Dithering tolerance: ITU G.823
 - Output port model: BNC (non-balance), RJ45 (balance)
 - Source of clock transmission:
External clock: take clock from external clock interface
Resume clock: take clock from receiving terminal

Error Rate Test (BERT Test)

- 3). E1 Frame Format
 - PCM31, PCM31+CRC, PCM30, PCM30+CRC
 - Non-framing mode, Automatic detection
- 1). BERT Pattern (Patterns)
 - 511, 2047, 2E15-1, 2E15-1 (reverse), 2E20-1, 2E20-1 (reverse), QRSS, 2E23-1, 2E23-1 (reverse), all 1, all 0, alternate, 1100, 3 IN 24, 1 IN 16, 1 IN 8, 1 IN 4, User programming 1/2/3
- 2). BERT Display Format
 - Error counting, Alarm counting, ITU G.821, ITU G.826
 - M.2100, Histogram
- 3). BERT Transmission Error Rate
 - Insert one error compulsorily
 - Apply an error rate of 10⁻³-10⁻⁷ compulsorily
- 4). Quality Analysis:
 - Receiving seconds, Error seconds, Alarm seconds
 - Free-of-error seconds, Error rate, Valid seconds
 - Serious error seconds, G.821 error seconds
 - G.826 error seconds, Invalid seconds

Other Functions

- 1). Color Display Screen: Character/graphic mode
- 2). Test Results Report
 - 100 pieces of test results at max available in storage
 - Direct display on LCD screen
 - Print via printer port available
- 3). Modular Design for Easy Update

Indications

LEDs (DTE, DCE, DATA PORT, TD, RD, DCD, RTS, CTS, DTR, DSR, TC, RC XTC)

Certification

CE

Power Input

AC230V adapter to DC 9V 2A

Dimension

134 x 179 x 68mm (W x D x H)

Weight

0.8kg

Temperature

0°C ~ 50°C (Operating), -10°C ~ 70°C (Storage)

Humidity

10 ~ 90% non-condensing

MTBF

35,000 hrs



Ordering Information

Model Name	Description
HCT-BERT/E1	E1 analyzer