

HCT-BERT/C

E1/Datacom BER Tester



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E1 BERT

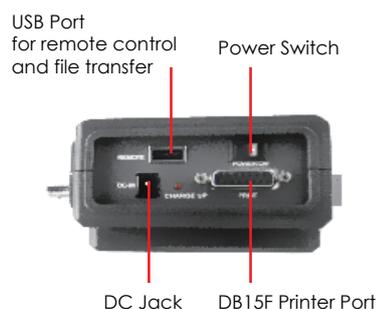
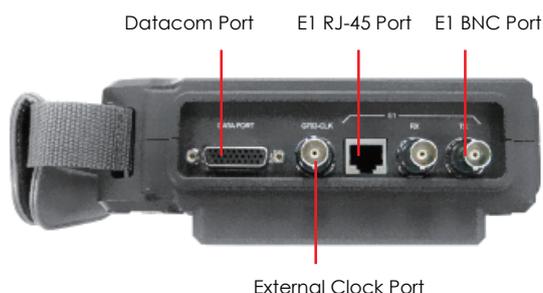
The HCT-BERT/C tester is a compact, color-LCD, graphic-user-interface, single hand E1 Bit error rate tester designed for field use in analysis and maintenance of data communications (V.35, RS530, X.21, RS232) and E1 (2.048Mbps) lines. The HCT-BERT/C performs framed, unframed drop and insert Nx64Kbps, or nx56Kbps data into any time slot. The HCT-BERT/C tester also provides a variety of E1 line statuses, transmission performance testing (BERT) and monitoring. On the E1 line, the HCT-BERT/C may be used as a generator or receiver.

Features

- Color LCD display graphic mode
- USB port for remote control
- Results Report
- Supports 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 CRC & BPV performance analysis
- Datacom BERT analysis available for V.35, RS-530, X.21 and RS-449
- V.35/ V.24/RS-232/449/530/ X.21

Specifications

E1 interface	E1 Receiving Interface	<ul style="list-style-type: none"> • Line code: HDB3/AMI • Pulse feature: ITU G.703 • Jitter tolerance: ITU G.823 • Input port: BNC (non-balance), RJ45 (balanced) • Input mode: Impedance: 75ohm (unbalanced), 120ohm (balanced) • Bridging mode: impedance > 1000 ohm 	Error Rate Test (BERT Test)	BERT Patterns	<ul style="list-style-type: none"> • 511, 2047, 2E15-1, 2E15-1 (reverse), 2E20-1, 2E20-1 (reverse), QRSS, 2E23-1, 2E23-1 (inverted), all 1, all 0, alternate, 1100, 3 IN 24, 1 IN 16, 1 IN 8, 1 IN 4, User programmable 1/2/3
	E1 Transmission Interface	<ul style="list-style-type: none"> • Line code: HDB3/AMI • Pulse shape: 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 • Jitter tolerance: ITU G.823 • Output port model: BNC (non-balance), RJ45 (balanced) • Source of clock transmission: <ul style="list-style-type: none"> Internal clock: 2.048 MHz ± 50ppm, ± 100ppm. External clock: receive clock from external clock interface Recovery clock: take clock from received E1 Signal 		BERT Display Format	<ul style="list-style-type: none"> • Error counting, Alarm counting, ITU G.821, ITU G.826 • M.2100, Histogram
Other Functions	E1 Frame Format	<ul style="list-style-type: none"> • PCM31, PCM31+CRC, PCM30, PCM30+CRC • Unframed mode, Automatic detection 	BERT Transmission Error Rate	<ul style="list-style-type: none"> • Insert one forced error • Fixed error rate of 10⁻³~10⁻⁷ 	
	Color Display Screen: Character/graphic mode		Quality Analysis	<ul style="list-style-type: none"> • Receiving seconds, Error seconds, Alarm seconds • Error Free seconds, Error rate, Valid seconds • Severely error seconds, G.821 error seconds • G.826 error seconds, Unavailable seconds 	
	Test Results Report	<ul style="list-style-type: none"> • 100 test results max available in storage • Direct display on LCD screen • Print via printer port available 	Data Port BERT Test	<ul style="list-style-type: none"> • Data rate of the multiple of 64Kbps: N*64Kbps (N=1~36) 	
	Modular Design for Easy Update		Indications	LEDs (DTE, DCE, DATA PORT, TD, RD, DCD, RTS, CTS, DTR, DSR, TC, RC XTC)	
			Power Input	AC100 ~ 240V Adapter to DC 9V 2A	
			Dimensions	179 x 134 x 68 mm (D x W x H)	
			Weight	0.8kg	
			Temperature	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)	
			Humidity	10 ~ 90% non-condensing	
			MTBF	35,000 hrs	



Ordering Information

Model Name	Description
HCT-BERT/C	E1 / Datacom analyzer

Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.