

# HCT-BERT/C

## E1/Datacom BER Tester



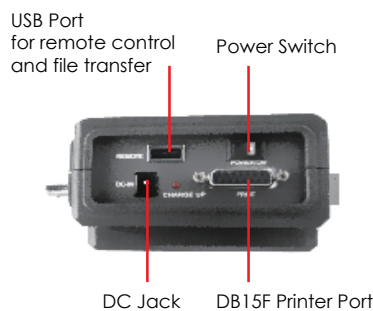
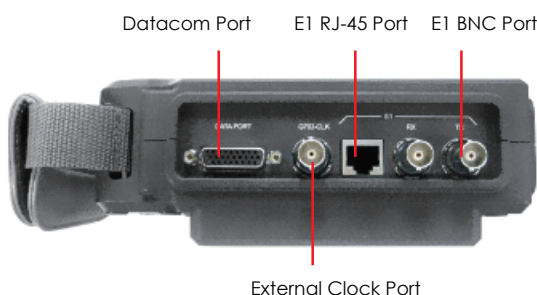
The HCT-BERT/C tester is a compact, color-LCD, graphic-user-interface, single hand E1 Bit error rate tester designed for field use in analysis and maintenance of data communications (V.35, RS530, X.21, RS232) and E1 (2.048Mbps) lines. The HCT-BERT/C performs framed, unframed drop and insert Nx64Kbps, 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

<b>E1 interface</b>	<b>E1 Receiving Interface</b>	<ul style="list-style-type: none"> <li>• Line code: HDB3/AMI</li> <li>• Pulse feature: ITU G.703</li> <li>• Jitter tolerance: ITU G.823</li> <li>• Input port: BNC (non-balance), RJ45 (balanced)</li> <li>• Input mode: Impedance: 75ohm (unbalanced), 120ohm (balanced)</li> <li>• Bridging mode: impedance &gt; 1000 ohm</li> </ul>	<b>Error Rate Test (BERT Test)</b>	BERT Patterns	<ul style="list-style-type: none"> <li>• 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</li> </ul>
	<b>E1 Transmission Interface</b>	<ul style="list-style-type: none"> <li>• Line code: HDB3/AMI</li> <li>• Pulse shape: ITU G.703</li> <li>• Pulse amplitude: Nominal 2.37V for BNC 75 ohm Nominal 3.00V for RJ45 120 ohm</li> <li>• Zero amplitude: ±0.1 V at max</li> <li>• Jitter tolerance: ITU G.823</li> <li>• Output port model: BNC (non-balance), RJ45 (balanced)</li> <li>• Source of clock transmission: Internal clock: 2.048 MHz ±50ppm, ±100ppm. External clock: receive clock from external clock interface Recovery clock: take clock from received E1 Signal</li> </ul>		BERT Display Format	<ul style="list-style-type: none"> <li>• Error counting, Alarm counting, ITU G.821, ITU G.826</li> <li>• M.2100, Histogram</li> </ul>
<b>Other Functions</b>	<b>E1 Frame Format</b>	<ul style="list-style-type: none"> <li>• PCM31, PCM31+CRC, PCM30, PCM30+CRC</li> <li>• Unframed mode, Automatic detection</li> </ul>	BERT Transmission Error Rate	<ul style="list-style-type: none"> <li>• Insert one forced error</li> <li>• Fixed error rate of 10<sup>-3</sup>~10<sup>-7</sup></li> </ul>	
	<b>Color Display Screen: Character/graphic mode</b>		Quality Analysis	<ul style="list-style-type: none"> <li>• Receiving seconds, Error seconds, Alarm seconds</li> <li>• Error Free seconds, Error rate, Valid seconds</li> <li>• Severely error seconds, G.821 error seconds</li> <li>• G.826 error seconds, Unavailable seconds</li> </ul>	
	<b>Test Results Report</b>	<ul style="list-style-type: none"> <li>• 100 test results max available in storage</li> <li>• Direct display on LCD screen</li> <li>• Print via printer port available</li> </ul>	Data Port BERT Test	<ul style="list-style-type: none"> <li>• Data rate of the multiple of 64Kbps: N*64Kbps (N=1~36)</li> </ul>	
	<b>Modular Design for Easy Update</b>		<b>Indications</b>	LEDs (DTE, DCE, DATA PORT, TD, RD, DCD, RTS, CTS, DTR, DSR, TC, RC XTC)	
			<b>Certification</b>	CE	
			<b>Power Input</b>	AC100 ~ 240V Adapter to DC 9V 2A	
			<b>Dimensions</b>	179 x 134 x 68 mm (D x W x H)	
			<b>Weight</b>	0.8kg	
			<b>Temperature</b>	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)	
			<b>Humidity</b>	10 ~ 90% non-condensing	
			<b>MTBF</b>	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.