CTC Union's Newsletter

What's New — Part #1 *HCT-7000*

CTC Union's Network Testing Equipment includes a variety of portable testing equipment for networking professionals. Our HCT Series testers are menu driven protocol analyzers with industry standard interfaces. They provide protocol analysis of ASYNC, SYNC(BSC), HDLC, SDLC, X.25, DDCMP, Frame Relay, SNA, PPP, SLIP, V5.1, V5.2, ISDN-D and SS7 as well as BERT (Bit Error Rate Testing) functions. Now CTC Union is proud to present the perfect solution for Network Testing - the *HCT-7000*.

The *HCT-7000* is a portable, battery powered communication tester, designed for a wide range of protocol analysis and BERT (Bit Error Rate Test) at full E1 speeds (2.048Mbps) and is fully suitable for equipment installations, on-line or off-line diagnostics, debugging, and interface development. Especially, its **Modular-Design** makes its easier to use and more compatible with many different testing situations. The **High Speed** Performance of its Protocol Analysis function makes it most powerful.

FEATURES : Frame Relay Analysis:

2M frame monitor and emulation based on ITU Q.933, ANSI T1.618/T1.617 and RFC1490 (RFC2427) packets. LMI analysis, automatic DLCI detection, FOX and user defined test messages over active DLCIs, Pings for end-to-end routing tests, DLCI statistics, Performance. Statistics, Load Testing, DLCI Filtering.

Menu driven setup, Auto Configuration, Histogram Analysis, ASYNC terminal emulation, File Management, Remote Control, Self Tests and Diagnostics

A Master unit includes a backlight LCD, push-button switch keyboard, internal rechargeable battery, AC power adapter (100~240VAC), hard shell carry case. There are two slots for modularized hardware interfaces, one PCMCIA (PC Card) card slot for optional expandable Memory RAM, one remote control port (RS-232 async) and one printer port (Centronics). The cable accessories include one remote control cable DB9M to DB9F+DB25F and one printer cable DB15M to C36M. Hardware interface modules and software packages must be ordered separately as options.

HardWare Options

1. Datacom Interface Module

Datacom 2M (2.048Mbps) BERT with the following protocol analysis; Frame Monitor and Emulation Package: Async, Sync, SDLC, HDLC, X.25, Frame Relay and DDCMP. Two HD26 ports supporting RS-232,V.35,RS-530/RS-449, X.21. programmable interface.

The standard accessory cable is HD26M to DB25M (RS-530 Standard) plus a gender changer. Other interface cables must be ordered separately.

Optional Adapter cables

RS-232(F/M) adapter cable   V.35(F/M) adapter cable   RS-449(F/M) adapter cable   X.21(F/M) adapter cable

2. E1 Interface Module

E1 Logic, Frame, CRC, BPV, E-bit BERT, G.821/826 BERT, M.2100 BERT.

Optional software for the E1 Frame Relay protocol analysis and CCS analysis for SS#7, ISDN ,V5 .

Two BNC ports, one DB15 for Balanced and one Bantam for receiving external clock.

The standard accessories are two BNC to BNC, 75 Ohm, cables and one Bantam to Bantam, 120 Ohm, cables.

Other optional cables as follows:

Optional Adapter cables

BNC Extension Cable   DB15M to RJ-45 G.C.   DB15M to Female Bantam cables.

E1 Bantam/ MIPS   E1 Bantam/ Siemens   E1 Bantam/ Extension Cable

3. T1 Interface Module

T1 Logic, Frame, CRC, BPV, G.821/826 BERT, M.2100 BERT

Two Bantam ports, one DB15 for Balanced and one Bantam for receiving external clock.

Other optional software scheduled for future release.

The standard accessories are a pair of Bantam to Bantam 100 Ohm cables.

Other optional cables as follows:

Optional Adapter cables : DB15M to RJ-45 G.C.

4. G.703 64K Interface Module

Two BNC ports and one RJ-45 port for G.703 64K Codirectional/Contradirectional/Centradirectional interface module.

** Software Options

All software options apply to Datacom, E1, or T1 at speeds up to 2.048Mbps.

1. Frame Relay Protocol Analysis software package

Frame Relay Analysis, Frame monitor and emulation, Based on ITU Q.922/Q.933, ANSI T1.618/T1.617,

and RFC 1490(RFC2427) packets, LMI analysis, automatic DLCI detection,

Fox and user defined test messages over active DLCIs, PINGs for end to end routing test, DLCI statistics,

Performance statistics, Load testing.

2. PPP/SLIP Protocols Analysis software package

PPP/SLIP Frame Monitor and Emulation Pack.

3. SNA Protocols Analysis software package   4. SS#7 F/W

SNA Frame Monitor and Emulation Pack.   E1/T1 CCS SS#7 Protocol Analysis Firmware Pack.

5. ISDN F/W   6. V5 F/W

E1/T1 CCS ISDN-D Channel Protocol Analysis Firmware.   E1 CCS V5.1/V5.2 Protocol Analysis.

**The features mentioned above, all can be upgraded through a Distributor near you.

This product has built-in security code protection, it can only be upgraded under a license agreement.

What's New Part #2

ETU/TTU Series Interface Modules ET10-R Routing Interface Module

When the *ETU Series* or *TTU Series* is installed with an *ET10-R Interface*, the unit is not only a access unit for E1 or T1 but also becomes a high performance WAN **Router** for 10/100BASE-T Ethernet extension. The *ET10-R* Ethernet **Routing** interface module for CTC Union ETU/TTU Series DSU/CSU Access Units may be configured using the Windows™ based *Netdevice Manager* software and Ethernet connection regardless of the *ET10-R* IP address setting. The *ET10-R* may also be accessed via the RS-232 asynchronous communication "Craft"port and text based terminal emulation software (such as HyperTerminal™). Once an IP address has been established for your subnet, the *ET10-R* may also be accessed via TCP/IP Telnet on the Ethernet interface.

The *ET10-R* supports the following functions:
Router Ethernet port IP Address/Subnet Mask
Router Name
Router Password
WAN port IP address
DHCP function
NAT function
Routing Table
RIP I, RIP II, Dynamic Routing
PPP or Frame-Relay WAN Protocol
IP Mapping
Client Filtering
Async Craft Port
Flash Upgradeable
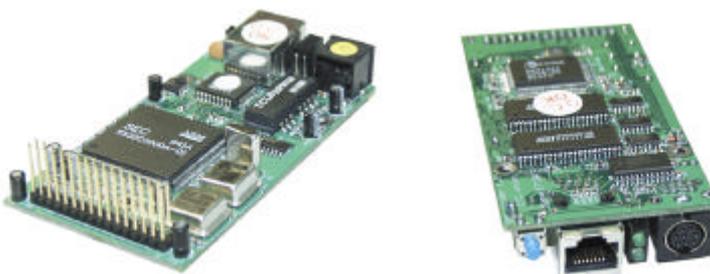
Available for the following DSU/CSU units :

ETU SERIES	TTU SERIES
ETU01	TTU01
ETU01A	TTU01A
ETU02-MUX	TTU02-MUX