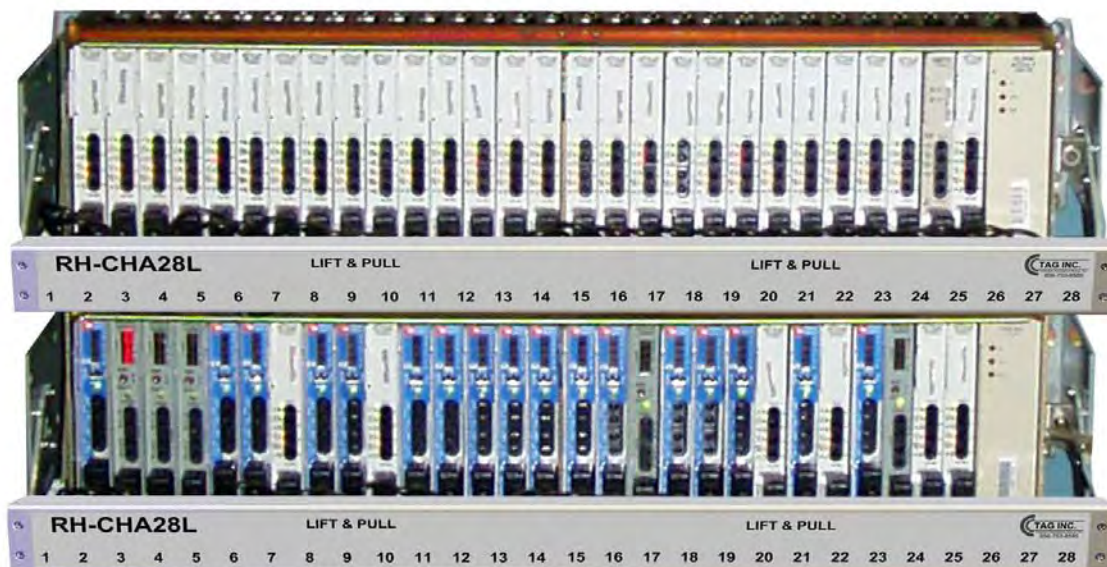


Remote HDSL Test Access System - RHTAS



(Works on all HDSL systems that have 9 Pin connectors - 3192, 3190, WeCo 220, Kentrox 220, DDM Plus)

NEBS Approved

The first HDSL systems deployed in the telephone industry did not allow for *Remote Test Access* capabilities. The only means to provision, test or retrieve historical test data was via a serial craft interface port (9 pin connector) on the faceplate of each card. A skilled technician had to *physically* be at the HDSL card location to gain access via a laptop or dumb terminal.

The local serial craft interface port on HDSL cards was designed to be an effective "non-intrusive" tool for collecting historical Performance Monitoring (PM) data and troubleshooting HDSL circuits. These cards contain test data that can sectionalize troubles to HTUC (CO HDSL Card), Doublers, Cable Pairs and HTUR (CPE/Remote HDSL Card). Most cards contain a 31 day history.

With TAG'S **Remote HDSL Test Access System (RHTAS)**, telephone companies will now have the ability to **remotely connect** to the serial craft interface port on HDSL cards. The extraordinary capabilities of the new RHTAS will add a *powerful dimension* to HDSL maintenance and surveillance for the telecommunications industry.

Benefits:

- ▶ **Remote access puts data** in the "hands" of the best HDSL troubleshooters.
- ▶ Allows **accurate dispatching** on HDSL troubles.
- ▶ **Eliminates** having another **person** retrieve or collect data.
- ▶ **Remotely monitor and collect** margin and performance data for **proactive maintenance**.
- ▶ **Able to interface** existing remote test systems.

150 Cooper Rd. (F-15)
W. Berlin, NJ 08091

www.tagcords.com

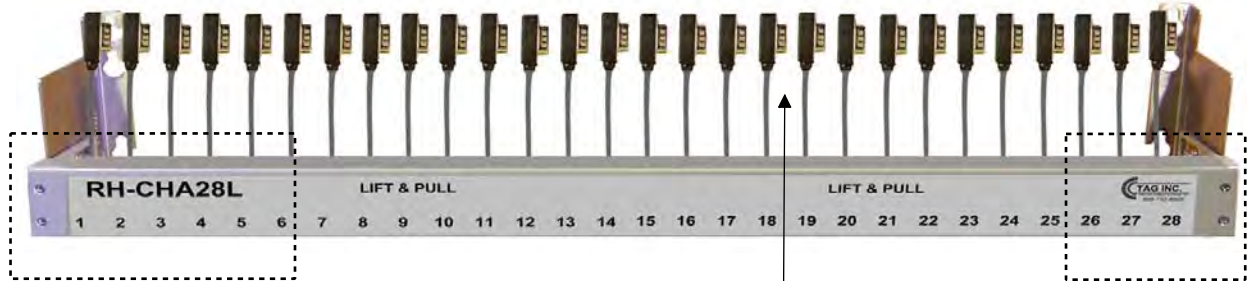
Telecom Assistance Group

Telephone: (856) 753-8585

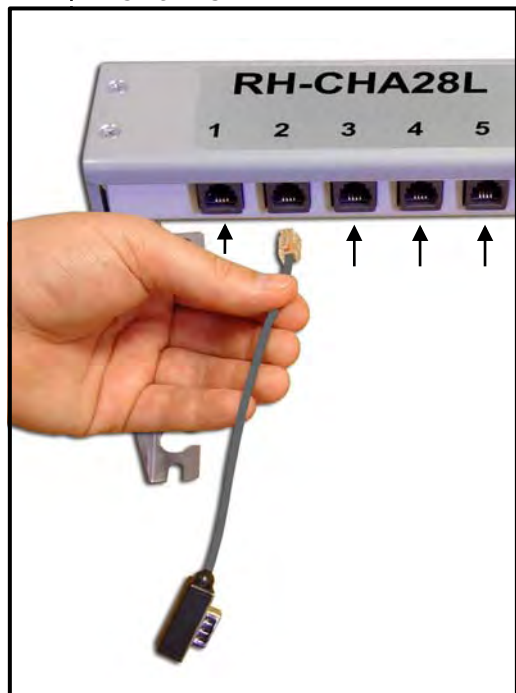
Fax : (856) 768-7645

Remote HDSL Test Access System - RHTAS

Shelf Interface Unit (rail):



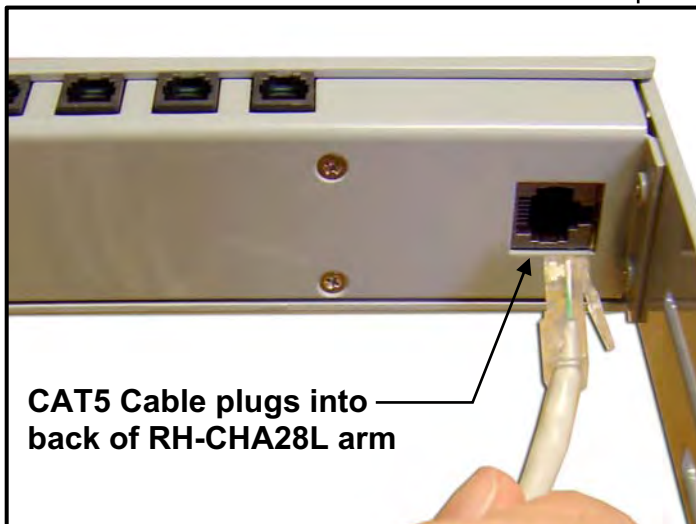
Front View



(28) Modular Plug to Right Angle 9Pin



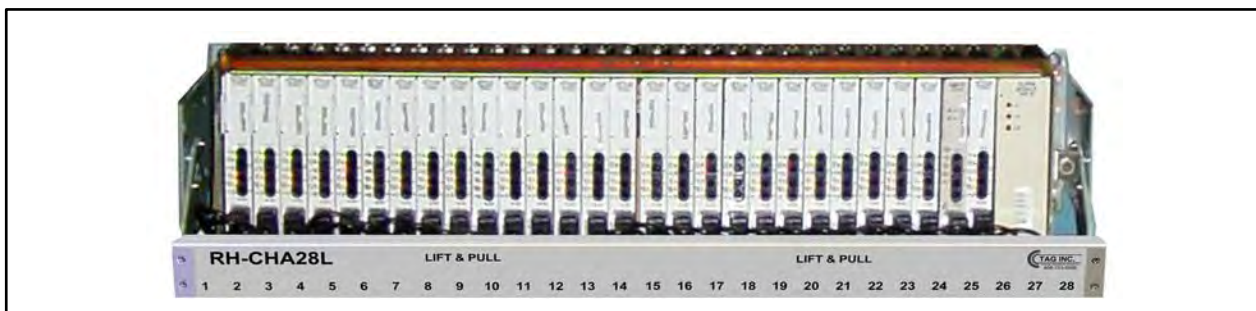
Back View



CAT5 Cable plugs into back of RH-CHA28L arm

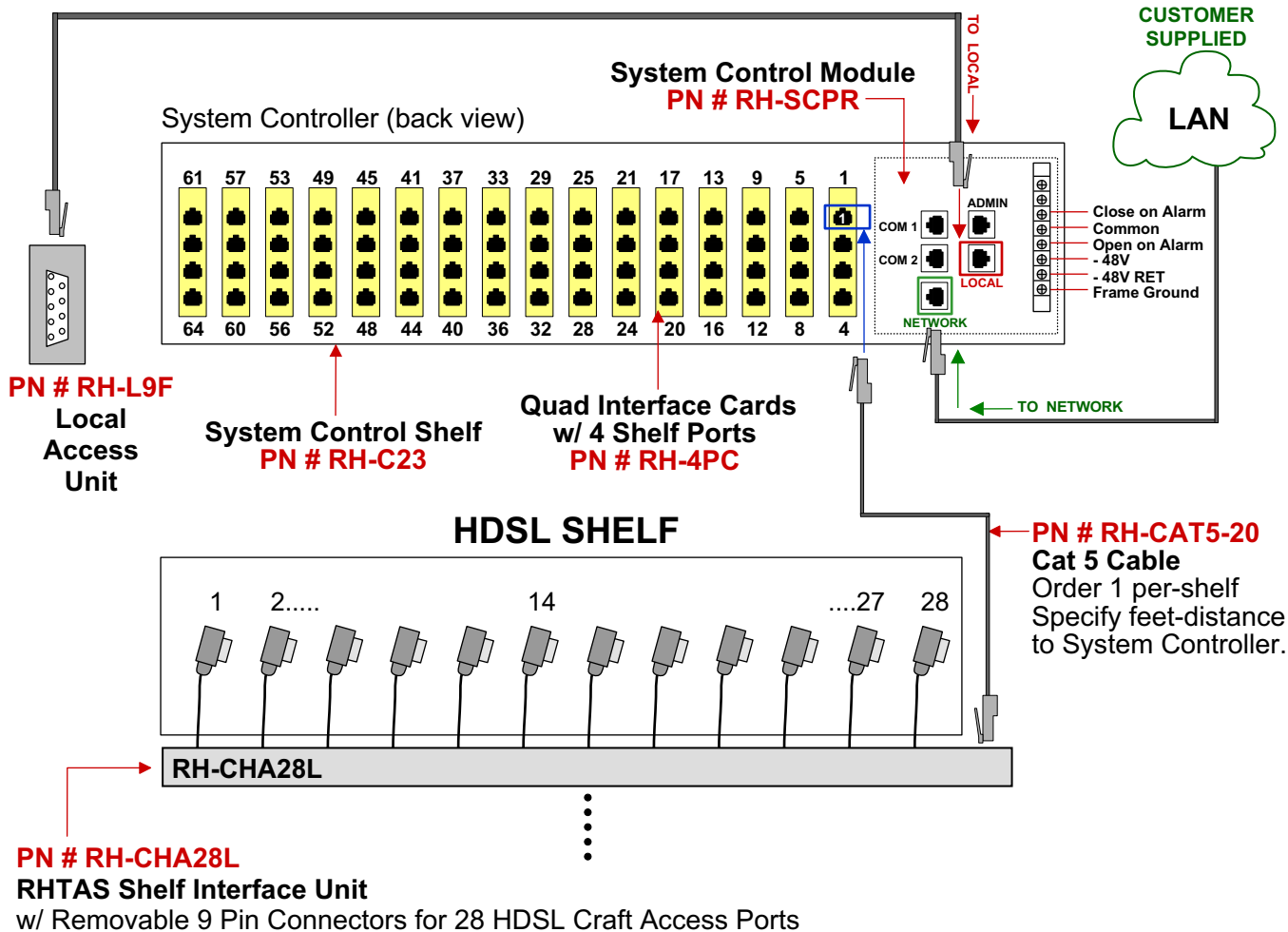
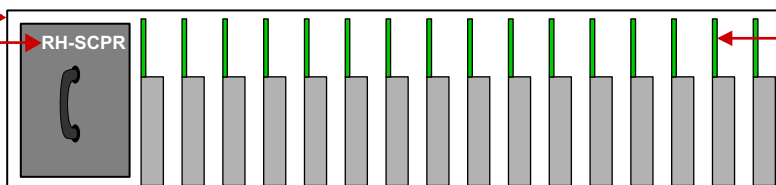
Remote HDSL Test Access System - RHTAS

Ordering/Configuration Guide:



RHTAS System Controller

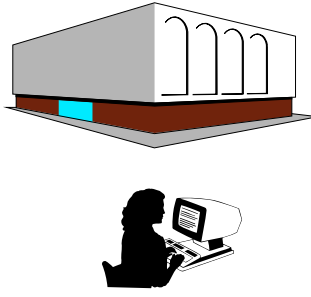
- **RH-SCPR:** RHTAS System Control Module (plugs into the **RH-C23**)
- **RH-C23:** RHTAS System Control Shelf, (23")
 - Accommodates 16 Quad Interface cards (**RH-4PC**)
 - (Up to 64 (28 card type) or 128 (14 card type) Shelves)



Remote HDSL Test Access System - RHTAS

System Flowchart:

- 1 The Center DOES NOT issue a test assist Trouble Ticket.
- 2 The Center uses the CKT ID to access the WordDoc.



```

CKT 13/HCGS/677180 /PT A ANYCLLI1W08 -- Z ANYCLLI1 /FOR:
ORD C79884981 -001 SUPP A ACTN IE CAC SMN2XU2 MCO ANYCLLI1MH5
N/*LOCN,EQPT AND FAC FRAME ID UNIT SV Z-A A-Z MISC
TIMBD811 010154.02C 124-22
EEDC E=ANYCLLI1K05 LAS9
ANYCLLI1K05 F05/05/124/22 243010
A 2540 T1EDSX 1 X4 M=0000.0 01SMN2
OWNER=B-BB XU2 S1
F10/09/28/22 3/HCGS
NOBANK /67718
DSX-1 010118/F10/09/28/22 0/

H3BN PT
H34SCEBNN
A T1MRP4B7 01 0107 02 10 03
A T1L8RPN C LS043 8603 I
*****
A T1MRP4B7 REMOTE ACCESS AVAILABLE
*****
ANYCLLI1 FM1 NOTE N
FM1 G
1 A EXC67 26 1 XT R0378 DB37.2 GO TO:
.9 DOC
4211 BP-IN PG
0829 GO PTLA DSGNR MCP/800-945-9040 ISS 002/08-29-07 PG C003-005
        
```

- 3 From WordDoc Center will Select:

CLLI CODE

CLLI CODE	
Location	
ANYCLLI1	

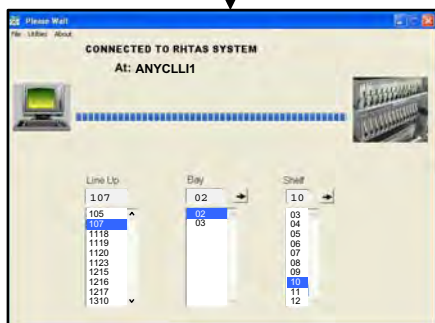
FRAME ID

FRAME ID	
Line Up	Bay
107	02

UNIT

UNIT	
Shelf	Card Slot
10	03

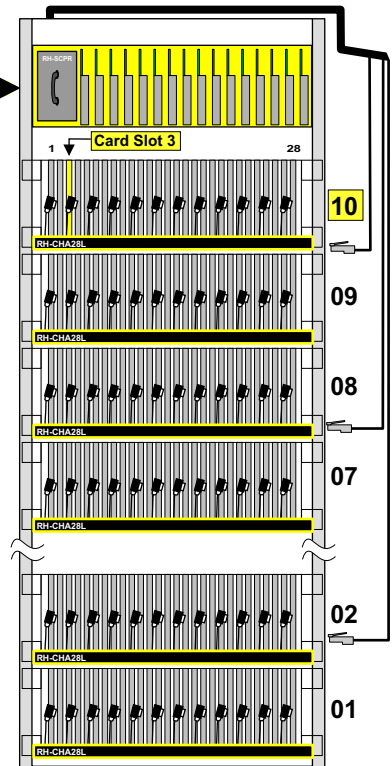
into TAG "Office Mapping Software"



CLLI CODE	IP ADDRESS
ANYCLLI1	172.555.196.109
ANYCLLI2	172.555.197.110
ANYCLLI3	172.555.198.111

CLLI CODE map to IP Address of TAG System Controller

Central Office - 1st Floor HDSL



RHTAS System Controller

- 5

Remote Tester now physically connected to 9 Pin connector at HTU-C card in Shelf 10 Card Slot 03

RR107.02

Remote HDSL Test Access System - RHTAS

Screenshots of the RHTAS:



Please Wait

CONNECTED TO RHTAS SYSTEM
At: ANYCLL11

Line Up: 107
Bay: 02
Shelf: 10

105	02	03
107	02	04
1118	03	05
1119		06
1120		07
1123		08
1215		09
1216		10
1217		11
1310		12

TAG RHTAS Circuit Selector

Connected to Site: ANYCLL11-555555
CENTRAL OFFICE 1

Line Up: 107
Bay: 02
Shelf: 10

Choose Shelf | Open Terminal

Chg Site | Quit

LEGEND
Last Scan: 03:46 5/13/2008
Card Detected
No Card Detected

Slot	MFR	Model	CLEI Code	Last Card Change
01	Adtran	HTUC	T1L38KUAAA	09:56 05/15/2006
02	Adtran	H4TUC	T1L7ECFAAA	09:22 05/09/2006
03	Adtran	HTUC	T1L1Y3X4AA	09:22 05/09/2006
04	Adtran	HTUC	T1L1Y3X4AA	09:22 05/09/2006
05	ADC	H2TUC	VACHVYVAAA	09:23 05/09/2006
06	Adtran	HTUC	T1L1Y3X4AA	09:23 05/09/2006
07	Adtran	HTUC	T1L1Y3X4AA	09:23 05/09/2006
08	ADC	HLU-319		09:23 05/09/2006
09	Adtran	HTUC	T1L1Y3X4AA	09:23 05/09/2006
10	ADC	H2TUC	VACHED0AAA	09:23 05/09/2006
11	ADC	H2TUC	VACHVYVAAA	09:24 05/09/2006
12	Adtran	HTUC	T1L1Y3X4AA	09:24 05/09/2006
13	Adtran	HTUC	T1L1Y3X4AA	09:24 05/09/2006
14	Adtran	HTUC	T1L1Y3X4AA	09:24 05/09/2006

RHTAS Terminal Display

Refresh Screen | Select New Card Slot | Chg Shelf | Chg Site | Print | Quit

Open LOG

Office: ANYCLL11-555555 CENTRAL OFFICE 1
Line Up: 107 Bay: 02 Shelf: 10 Card Slot: 03 Mfr: Adtran Model: H2TU-C CLEI: T1L1Y3X4AA

Circuit ID: 07/06/03 14:37:39

Adtran HDSL2 Main Menu

1. HDSL2 Unit Information
2. Provisioning
3. Span Status
4. Loopbacks and Test
5. Performance History
6. Scratch Pad, Ckt ID, Time/Date
7. Terminal Modes
8. Alarm History
9. Event History
10. System PM/Screen Report
11. Clear PM and Alarm Histories
12. Troubleshooting
13. Virtual Terminal Control

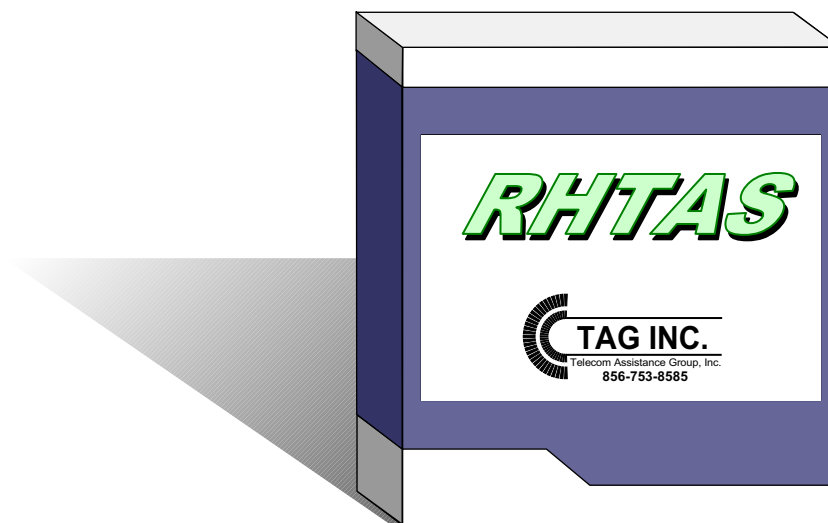
Selection:

Remote HDSL Test Access System - RHTAS

RHTAS Management System:

TAG's Optional Management System:

- ▶ Enhanced Center Software
- ▶ Periodically scan HDSL circuits (programmable)
- ▶ Compare margins over time
- ▶ Program clock settings on HDSL cards
- ▶ Inventory Reports
- ▶ Auto alarm / page capabilities on degrading circuits
- ▶ Network Surveillance (Links)
- ▶ Site Configuration Backup



Remote HDSL Test Access System - RHTAS

Typical RHTAS Installation Overview:

- 16 RHTAS Arms
- 1 System Controller
- 1 Local Access Unit
- 4 Quad Interface Cards
- 1 Heat Deflector

