

TOTAL ACCESS® 1000 239 HRE



239 HRE CLEI: VAR1FC0B__



LED STATUS

NETWORK		
LP1 / LP2	OFF	No synchronization with the ICOT.
	GREEN	Synchronized with good signal quality on NET Loop $1/\text{Loop}\ 2$ (> 2 dB margin).
	YELLOW	Synchronized with marginal signal quality on NET Loop 1/Loop 2 (1 to 2 dB margin).
	• RED	Synchronized with poor signal quality on NET Loop 1/Loop 2 (0 dB margin).
CUSTOMER		
LP1 / LP2	OFF	No synchronization with the RT.
	GREEN	Synchronized with good signal quality on CUST Loop 1/Loop 2 (> 2 dB margin).
	YELLOW	Synchronized with marginal signal quality on CUST Loop 1/Loop 2 (1 to 2 dB margin).
	• RED	Synchronized with poor signal quality on CUST Loop 1/Loop 2 (0 dB margin).
LL / RL	OFF	No active arming or loopback is detected at the HRE.
	YELLOW	Indicates LB from HRE toward the network is active.
	GREEN	Indicates LB from HRE toward the customer is active.

HDSL LOOP SPECIFICATIONS FOR OPTIMUM OPERATION

- Cable pairs must be nonloaded
- No single Bridged Tap > 2 kft
- Maximum loop resistance is 800 Ω
- Pulse attenuation (LOSS on HDSL Current System Status screen) ≤ 30 dB
- Impulse noise ≤ 50 dBrn as measured using a 50 kb filter
- Total Bridged Tap < 2.5 kft
- 196 KHz insertion loss ≤ 35 dB
- Signal quality of 6 dB or higher, with no fluctuation and equal on both loops
- Wideband Noise ≤ 31 dBrn as measured using a 50 kb filter
- Internal Clock Accuracy <u>+</u>25 ppm (exceeds Stratum 4)

LOOPBACK AND CONTROL CODES

FUNCTION	CODE	RESPONSE
ARM (in-band)	11000 (binary)	ICOT and HRE(s) will arm and the HLIU will loop up toward the network.
ARM (ESF Data Link)	FF48 (hex) or 1111 1111 0100 1000 (binary) sent in the Facility Data Link	ICOT and HRE(s) will arm and the HLIU will loop up toward the network.
Disarm (in-band)	11100 (binary)	All units are removed from the armed state and loopbacks will be released.
Disarm (ESF Data Link)	FF24 (hex) or 1111 1111 0010 0100 (binary) sent in the Facility Data Link	All units are removed from the armed state and loopbacks will be released.
Activation ICOT ¹	D3D3 (hex) or 1101 0011 1101 0011 (binary)	If received while in an armed state, the ICOT will loop toward the network.
Loop down w/out disarming ²	9393 (hex) or 1001 0011 1001 0011 (binary)	Automatically releases without disarming any ICOT and HRE that may be in loopback toward the network.
HRE Network Loop up ¹	C741 (1100 0111 0100 0001)	If an HRE is present and units armed, the HRE will loop up toward network
HLIU Loop up ¹	C742 (1100 0111 0100 0010)	If received while in an armed state, the HLIU will loop toward the network

 $^{^{\}scriptscriptstyle 1}$ Units must be armed with 11000b or FF48h before this code will work.

NOTE: All codes listed above must be sent for a minimum of $\tilde{5}$ seconds in order for them to be detected and acted upon.

Card Edge Pin Assignment				
Designation	Description			
GND	Ground			
NC	No Connect			
T1	Customer Loop 1 Tip			
R1	Customer Loop 1 Ring			
T1	Network Loop 1 Tip			
R1	Network Loop 1 Ring			
NC	No Connect			
T	Network Loop 2 Tip			
R	Network Loop 2 Ring			
GND	Ground			
T	Customer Loop 2 Tip			
R	Customer Loop 2 Ring			
	Designation GND NC T1 R1 T1 R1 NC T R RN T T R T T T R T T T R T T T T R T			



² In order to behave like an NIU, the HLIU will not loop down from the network side with 9393h.



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POWERING OPTIONS

The ICOT will power the entire Total Access 1000 System. When an HRE is used to extend the range of the POTS circuits, a second ICOT is used to provide auxiliary span power to the system through additional copper pairs. (See **Figure 1**). The Total Access 1000 system continues to receive span power through the HDSL loops. The second ICOT is only needed for its span powering capacity. No circuit information can be accessed from it. No DSX-1 connections are necessary. The loop will not train, and it will always show an alarm condition. Applications using only U-BR1Tes do not require an additional ICOT.

WARRANTY

ADTRAN will replace or repair this product within the warranty period if it does not meet its published specifications or fails while in service. Warranty information can be found at www.adtran.com/warranty. USA and Canadian customer Faxback: (877) 457-5007, Document 414.

COMPLIANCE

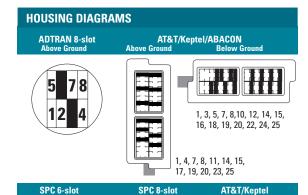
The 239 HRE complies with the requirements covered under UL 60950 and is intended to be installed in an enclosure with an Installation Code (IC) of "B" or "E." Ensure chassis ground is properly connected.

Code	Input	Output
Power Code (PC)	С	С
Telecommunication Code (TC)	Χ	Χ
Installation Code (IC)	Α	-

Figure 1 Central Office **Customer Premises** T1 **Switch** TR-08 SF Phone HRE or ICOT **ESF** Total Access 1000 RT Modules System Auxiliary Power Pairs

ADTRAN 239 REPEATER HOUSINGS					
PART #	Description	HRE Capacity	CLEI Code*	Material	
1150027L1	4-slot Air Stub	4	DDM0ABA1MA	Stainless Steel	
1150027L2	4-slot Gel Stub	4	DDM0BBA1MA	Stainless Steel	
1152010L3	2-slot Gel Stub	2	DDM0BAE1RA	Valox Plastic	
1152010L4	2-slot Air Stub	2	DDM0AAE1RA	Valox Plastic	
1150057L1	4-slot Air Stub	4	DDM0DA01RA	Stainless Steel	
1150057L2	4-slot Gel Stub	4	DDM0CA01RA	Stainless Steel	
1150058L1	8-slot Air Stub	6	DDM0EE01RA	Stainless Steel	
1150058L2	8-slot Gel Stub	6	DDM0FE01RA	Stainless Steel	
1190816L1	16-slot Air Stub	16	DDM0ES01RA	Stainless Steel	
1190816L2	16-slot Gel Stub	16	DDM0FS01RA	Stainless Steel	

HRE 239 DEPLOYMENT IN OTHER HOUSINGS				
Description			Material	
25-slot	12	16**	Polymer	
6-slot Air Stub	5	6	Stainless Steel	
6-slot Gel Stub	5	6	Stainless Steel	
8-slot Air Stub	7	8	Stainless Steel	
8-slot Gel Stub	7	8	Stainless Steel	
8-slot Air Stub	8	8	Valox Plastic	
12-slot Air Stub	6	N/A	Polymer	
100-slot	42	N/A	Steel	
	25-slot 6-slot Air Stub 6-slot Gel Stub 8-slot Air Stub 8-slot Gel Stub 8-slot Gel Stub 12-slot Air Stub	Description HRE C Above Ground 25-slot 12 6-slot Air Stub 5 6-slot Gel Stub 5 8-slot Air Stub 7 8-slot Gel Stub 7 8-slot Air Stub 8 12-slot Air Stub 6	Description HRE Capacity Above Ground Below Ground 25-slot 12 16** 6-slot Air Stub 5 6 6-slot Gel Stub 5 6 8-slot Air Stub 7 8 8-slot Gel Stub 7 8 8-slot Air Stub 8 8 12-slot Air Stub 6 N/A	

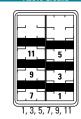


 3
 6

 2
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 1
 2

 1
 2



* TIRKS function code for all cases is HTURENN

** 16 units can be loaded inside the 819 housing for all below ground mounting orientations. if the 819 housing is mounted specifically in the vertical, stub down direction, 18 units can be loaded in slots 1, 3, 5, 7, 8, 10, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 24, 25.

≠ Pressurized

† Vented

Lucent 100 Slot Above Ground

Eillod:

Shelf 1: 1, 3, 5, 7, 9, 11

Shelf 2: 1, 3, 5, 7, 9, 11, 14, 16, 18, 20, 22, 24 Shelf 3: 1, 3, 5, 7, 9, 11, 14, 16, 18, 20, 22, 24 Shelf 4: 1, 3, 5, 7, 9, 11, 14, 16, 18, 20, 22, 24 Free Manuals Download Website

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