

TROUBLESHOOTING HDSL4

This ADTRAN HDSL4 unit is equipped with troubleshooting-at-a-glance LEDs (identified on the reverse side of this document) that provide customers with a simple means of identifying the location of certain faults. Additionally, screens available via the craft interface simplify the trouble isolation process. These screens and their associated benefits are described below.

Troubleshooting Screens

Available via the Main Menu, provides ADTRAN contact information and access to the Troubleshooting Guidance and General Information screens.

Troubleshooting Guidance Screens

Available via the Troubleshooting screen, detects and displays errors and/or alarms at any of the monitored inputs (DSX-1, DS1 and HDSL4). Guidance on the fault(s) detected includes possible cause(s) and suggested actions, including those shown below:

DSX-1 (DS1)		Facility:
LOS	Loss of signal (Red Alarm) at the DSX-1 (DS1) receiver	CROSSING Ground Fault on span (facility pair grounded)
CLK	T1 receive clock is out of range	SHORT Short circuit (or low impedance) between pairs
RAI	Remote Alarm Indication (Yellow Alarm) detected at DSX-1 (DS1) receiver	OPEN Open circuit between facility pairs
ALS	Alarm Indication Signal (Blue Alarm) detected at DSX-1 (DS1) receiver	DSX-1
ERR	Errors recorded at DSX-1 (DS1) receiver	LOS Loss of HDSL4 sync
		MARG Margin has exceeded the alarm threshold
		ATTEN Attenuation has exceeded the alarm threshold
		ERR Errors recorded at the HDSL4 receiver
		HIST Performance History of the DSX units

General Information Screen

Available via the Troubleshooting screen, a reference page which displays the minimum acceptable signal margin, maximum attenuation, and other deployment parameters for this HDSL4 circuit.

NOTE: Along with the Troubleshooting screen, the Detailed Status screen and Performance History screen, available via the craft access terminal, provide both real-time and historical view of this circuit. For complete deployment guidelines on the HDSL4 circuit, refer to the Installation and Maintenance Practices referenced on the front page.

ATTENUATION LIMITS		
Segment	Recommended Maximum	
	Upstream	Downstream
1 st segment	30 dB	32 dB
2 nd and 3 rd segment	28 dB	28 dB

RANGE LIMITS, PIG Cable, 75°F	
Gauge/Segment	Recommended Maximum
26 Gauge, 1 st segment	10,475 ft.
26 Gauge, 2 nd and 3 rd segment	9,865 ft. ^{1,2}
24 Gauge, 1 st segment	14,775 ft.
24 Gauge, 2 nd and 3 rd segment	14,050 ft. ^{1,2}

¹ In three segment circuits (two H4R's), individual segment resistance values must be verified. Refer to the Installation and Maintenance Practices for details and calculations.

² When designing a dual H4R loop (three segment), the first segment should have lower DC resistance than the second segment.

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.

LOOPBACK CONTROL CODES

Pattern	Description	Requires Arming?
1a03	Loop down all units and disarm	No
2a03	Arming Pattern, H4TU-R will loop up if loopback L/R is enabled	No
3a03	Disarm and loop down all units. Restores L/R PWD after DCDs	No
2a04	H4R1 L/R to Network	No
3a04	H4R2 L/R to Network	No
4a04	H4R3 L/R to Customer	No
5a04	H4R2 L/R to Customer	No
3a07	H4TU-R L/R to Network	No
4a07	H4TU-C L/R to Network	No
3a07	H4TU-R L/R to Customer	No
4a07	H4TU-C L/R to Customer	No
3F04	H4TU-C L/R to Customer	No
3F04	H4R1 L/R to Customer	No
3F06	H4R2 L/R to Customer	No
3F06	H4R3 L/R to Customer	No
4F07	Double open powering while present	Yes
FFFF	Loop down H4TU-C, Repeater - all loopbacks. Loop down H4TU-R - Cust L/R always. Will only loop down H4TU-R Network L/R if "NLI" is disabled. Does not disarm units if they are armed.	No
C740	H4R1 loopback pattern, 10 bit error injection	Yes
C740	H4TU-R loopback pattern, 20 bit error injection	Yes
C754	H4R2 loopback pattern, 20 bit error injection	Yes
C760	H4R3 loopback pattern, 30 bit error injection	Yes
D003	H4TU-C loop up pattern, 231 bit error injection	Yes
D008	Query Loopback Pattern (error injection) - H4TU-C: 231 Errors, H4R1: 10 Errors, H4R2: 200 Errors, H4R3: 20 errors, H4TU-R: 20 Errors	No
D004	Loopback Timeout Override. Disables L/R timeout. Restores original L/R timeout when unit is disarmed.	Yes
FF40	FDX Arming Pattern (DM only). Arms all units, H4TU-R will L/R to Network if "NLI" Enabled (if pattern sources at network)	No
FF24	FDX Disarm Pattern (DM only). Loop down and disarm all units	No
FF14	H4TU-C L/R to Network. Will not loop up H4TU-C if H4TU-C already in L/R to Customer	No
FF02	H4TU-R L/R to Network. Will not loop up H4TU-R if any unit already in L/R to Customer	No
FF04	H4R1 L/R to Network	No
FF06	H4R2 L/R to Network	No
FF08	H4R3 L/R to Network	No

Adtran Hdsl User Guide

Standard & Poor's



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Commerce Business Daily, 1999-10 *Video Dialtone Technology* Daniel Minoli, 1995 An explanation of the technical considerations regulatory issues and market requirements of video delivery describing digital video architectures services protocols and distribution systems Discusses the long term viability of digital video innovations describes the activities of the major players among telephone carriers moving to video and cable tv providers moving to telephony and includes a primer on tv and cable technology For technology developers planners carriers students and end users Annotation copyright by Book News Inc Portland OR **Standard & Poor's Stock Reports**, 2002-07 **Byte**, 1998

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The Value Line Investment Survey ,2000 **Hoover's Billion Dollar Directory** Hoover's, Inc,1997 Contains essential information on 6 420 companies the publicly listed US companies that were traded on the New York Stock Exchange NYSE American Stock Exchange AMEX and Nasdaq National Market Nasdaq as of March 31 1997

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Table of Contents Adtran Hdsl User Guide

1. Understanding the eBook Adtran Hdsl User Guide
 - The Rise of Digital Reading Adtran Hdsl User Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Adtran Hdsl User Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Adtran Hdsl User Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Adtran Hdsl User Guide
 - Personalized Recommendations
 - Adtran Hdsl User Guide User Reviews and Ratings
 - Adtran Hdsl User Guide and Bestseller Lists

-
5. Accessing Adtran Hdsl User Guide Free and Paid eBooks
 - Adtran Hdsl User Guide Public Domain eBooks
 - Adtran Hdsl User Guide eBook Subscription Services
 - Adtran Hdsl User Guide Budget-Friendly Options
 6. Navigating Adtran Hdsl User Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Adtran Hdsl User Guide Compatibility with Devices
 - Adtran Hdsl User Guide Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Adtran Hdsl User Guide
 - Highlighting and Note-Taking Adtran Hdsl User Guide
 - Interactive Elements Adtran Hdsl User Guide
 8. Staying Engaged with Adtran Hdsl User Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Adtran Hdsl User Guide
 9. Balancing eBooks and Physical Books Adtran Hdsl User Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Adtran Hdsl User Guide
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Adtran Hdsl User Guide
 - Setting Reading Goals Adtran Hdsl User Guide
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Adtran Hdsl User Guide
 - Fact-Checking eBook Content of Adtran Hdsl User Guide
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web explain how you described the treatment and benefits to the client on booking the appointment with my client we discussed that it would be a sports massage treatment