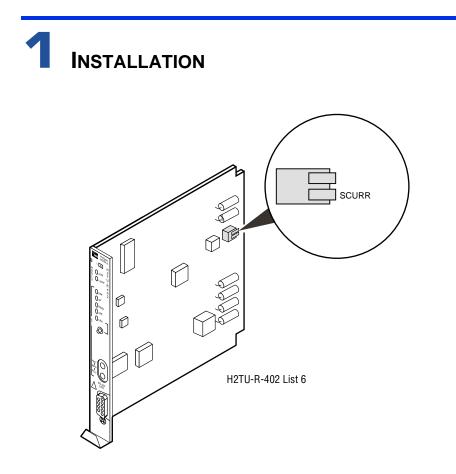
HiGain

QUICK INSTALLATION

H2TU-R-402 LIST 6 (LOCAL OR LINE POWER) LIST 6A (LINE POWER) REMOTE UNIT









Wear an antistatic wrist strap when installing the H2TU-R. Avoid touching components on the circuit board.

- 1 If you are installing the List 6 model, check the setting of the SCURR switch. If the H2TU-R is locally powered, and your application requires sealing current, place the SCURR switch in the down position .This allows the H2TU-R to send 10 mA of sealing current to the H2TU-C. (The default setting of the SCURR switch is the up position—sealing current disabled.)
- 2 Align the H2TU-R with the enclosure slot guides and slide the unit in. Push the unit back until it touches the backplane card-edge connector. The unit should snap into place, indicating that it is properly seated.



THE H2TU-R-402 LIST 6 AND LIST 6A

The HiGain H2TU-R-402 List 6 and List 6A remote units are the customer premises side of a repeaterless T1 transmission system. The system provides 1.544 Mbps transmission of a T1 payload on one unconditioned pair over the full Carrier Service Area (CSA) range. Enhanced firmware allows the H2TU-R-402 List 6 and List 6A to be deployed in the Soneplex Wideband 3190 protection switching applications. These applications have the following system requirements: two HXU-358 Multiplexers (software version 1.04 or higher), an HMU-319 List 7A or List 7C Management Unit (software version 3.06 or higher), an H2TU-C-319 List 6 Line Unit, and an HRE-206 Remote Enclosure equipped with a PSC-606 Protection Switching Controller.

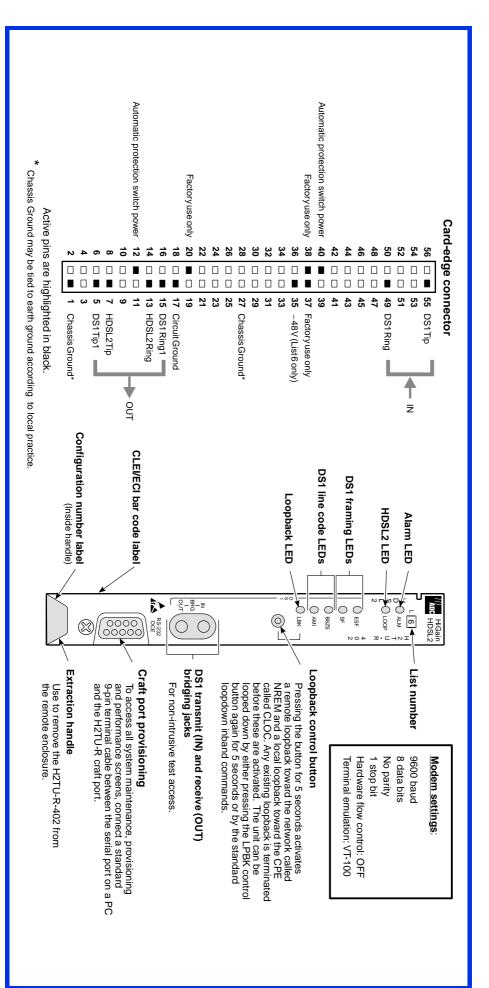
FEATURES

- Status Light Emitting Diodes (LEDs) for Digital Lightning and power cross-protection on HDSL2 and DS1 interfaces Signal Level 1 (DS1) and HDSL2
- Craft port for maintenance terminal access to HDSL2 provisioning screens
- Supports automatic protection switching •
- DS1 transmit (IN) and receive (OUT) bridging jacks for testing
- Local or line power (List 6) or line power only (List 6A)
- Transceiver optimized to adapt to cable impairment

- 1.552 Mbps full-duplex Overlapped PAM
- Transmission with Interlocking Spectra (OPTIS) HDSL2 transmission on a single pair
- Generic and addressable repeater loopback activation codes
- Remote provisioning
- Narrow 200 mechanics
- Ultra-low wander
- Flash download of firmware updates

SPECIFICATIONS

Operating Temperature	-40 °F to +149 °F (-40 °C to +65 °C)
Operating Humidity	5% to 95% (non-condensing)
Line or Local Power Consumption	6 Watts
Sealing Current Option (List 6 only)	Sends 10 mA to H2TU-C line unit
Electrical Protection	Secondary surge and power cross protection on all DS1 and HDSL2 ports
Mounting	Any 400 or 200 mechanics shelf
HDSL2 Line Rate	1.552 Mbps Overlapped Pulse Amplitude Modulated Transmission with Interlocking Spectra (OPTIS)
HDSL2 Output	+16.8 dBm ±0.5 dBm at 135 Ω
DS1 Pulse Output	0 dB, -7.5 dB, -15 dB
Maximum Provisioning Loss	35 dB at 196 kHz, 135 Ω
DS1 Line Rate	1.544 Mbps ±200 bps
DS1 Line Format	Alternate Mark Inversion (AMI), or Bipolar with 8-Zero Substitution (B8ZS)
DS1 Frame Format	Extended SuperFrame (ESF), SuperFrame (SF), or Unframed (UNFR)





Once the H2TU-R is installed, verify that it is operating properly by monitoring the Status LEDs on the front panel (refer to Table 1).

LEDs (ESF and SF) AMI LEDs will not light. ESF LED = Solid green Indicates Extended Super Frame (ESF). The LED blinks once per second when a frame or CRC error occurs. SF LED = Solid green Indicates Super Frame (SF). The LED blinks once per second when a frame erro occurs. OFF Indicates unframed or no signal. DS1 Code LEDs (B8ZS and AMI) Indicates DS1 code options. If DS1 signals are not detected, the ESF, SF, B8ZS, and AMI LEDs will not light. B8ZS LED = Solid green Indicates that the DS1 line code option is set to Bipolar with 8-Zero Substitutior (B8ZS). The LED blinks once per second when a string of excessive zeros is detected. AMI LED = Solid green Indicates that the user DS1 line code option is set to Alternate Mark Inversion (AMI). This LED blinks once per second when a Bipolar Violation (BPV) is detected. Loopback (LPBK) LED Shows loopback states to and from the network and to and from the Customer Interface (CI). Blinking once per second Blinking once per second Blinking 4 times per Indicates the H2TLL P is in an Armed state.	LED Status	Indicates
Blinking Indicates a LOS condition at the T1 input of the H2TU-C line unit. HDSL2 LED Displays HDSL2 Loop condition. Blinking once per second Indicates HDSL2 loop is in sync. Blinking 10 times per second Indicates a margin alarm condition on the HDSL2 loop. Blinking 10 times per second Indicates a Cyclical Redundancy Check (CRC) error on the HDSL2 loop. DS1 Framing (FRM) LEDS (ESF and SF) Indicates framing patterns. If DS1 signals are not detected, the ESF, SF, B8ZS, an AMI LEDs will not light. ESF LED = Solid green Indicates Super Frame (ESF). The LED blinks once per second when a frame or CRC error occurs. OFF Indicates Super Frame (SF). The LED blinks once per second when a frame erro occurs. OFF Indicates Super Frame (SF). The LED blinks once per second when a frame erro occurs. OFF Indicates Super Frame (SF). The LED blinks once per second when a frame erro occurs. OFF Indicates DS1 code options. If DS1 signals are not detected, the ESF, SF, B8ZS, and AMI] B8ZS LED = Solid green Indicates that the DS1 line code option is set to Bipolar with 8-Zero Substitution (B8ZS). The LED blinks once per second when a string of excessive zeros is detected. AMI LED = Solid green Indicates that the user DS1 line code option is set to Alternate Mark Inversion (AMI). This LED blinks once per second when a Bipolar Violation (BPV) is detected.	Alarm (ALM) LED	Shows alarm states for remote and local Loss of Signal (LOS).
HDSL2 LED Displays HDSL2 Loop condition. Blinking once per second Indicates HDSL2 loop is in sync. Blinking 10 times per second Indicates the HDSL2 loop is trying to acquire sync. Blinking 10 times per second Indicates a margin alarm condition on the HDSL2 loop. DS1 Framing (FRM) LEDs (ESF and SF) Indicates framing patterns. If DS1 signals are not detected, the ESF, SF, B8ZS, an AMI LEDs will not light. SF LED = Solid green Indicates Super Frame (ESF). The LED blinks once per second when a frame or CRC error occurs. DFF Indicates Super Frame (SF). The LED blinks once per second when a frame or CRC error occurs. DFF Indicates Super Frame (SF). The LED blinks once per second when a frame erro occurs. OFF Indicates that the DS1 line code option is set to Bipolar with 8-Zero Substitution (B8ZS). The LED blinks once per second when a string of excessive zeros is detected. AMI LED = Solid green Indicates that the user DS1 line code option is set to Alternate Mark Inversion (AMI). This LED blinks once per second when a Bipolar Violation (BPV) is detected. AMI LED = Solid green Shows loopback states to and from the network and to and from the Customer Interface (CI). Solid yellow Shows loopback states to and from the network and to and from the Customer Interface (CI). Solid yellow Blinking 4 times per Blinking 4 times per	Solid red	Indicates a Loss of Signal (LOS) condition at the T1 input of the H2TU-R.
Solid green Indicates HDSL2 loop is in sync. Blinking once per second Indicates HDSL2 loop is trying to acquire sync. Blinking 4 times per second Indicates a margin alarm condition on the HDSL2 loop. Blinking 10 times per second Indicates a Cyclical Redundancy Check (CRC) error on the HDSL2 loop. DS1 Framing (FRM) LEDs (ESF and SF) Indicates framing patterns. If DS1 signals are not detected, the ESF, SF, B8ZS, an AMI LEDs will not light. ESF LED = Solid green Indicates Super Frame (ESF). The LED blinks once per second when a frame or CRC error occurs. SF LED = Solid green Indicates DS1 code options. If DS1 signals are not detected, the ESF, SF, B8ZS, and AMI) B8ZS LED = Solid green Indicates DS1 code options. If DS1 signals are not detected, the ESF, SF, B8ZS, and AMI) B8ZS LED = Solid green Indicates DS1 code options. If DS1 signals are not detected, the ESF, SF, B8ZS, and AMI LEDs will not light. B8ZS LED = Solid green Indicates that the DS1 line code option is set to Bipolar with 8-Zero Substitution (B8ZS). The LED blinks once per second when a string of excessive zeros is detected. AMI LED = Solid green Indicates that the user DS1 line code option is set to Alternate Mark Inversion (AMI). This LED blinks once per second when a Bipolar Violation (BPV) is detected. Loopback (LPBK) LED Blinking 0 once per second Shows loopback states to and from the network and to and from the Customer Interface (CI). B	Blinking	Indicates a LOS condition at the T1 input of the H2TU-C line unit.
Blinking once per second Indicates the HDSL2 loop is trying to acquire sync. Blinking 14 times per second Indicates a margin alarm condition on the HDSL2 loop. Blinking 10 times per second Indicates a Cyclical Redundancy Check (CRC) error on the HDSL2 loop. DS1 Framing (FRM) LEDs (ESF and SF) Indicates framing patterns. If DS1 signals are not detected, the ESF, SF, B8ZS, an AMI LEDs will not light. ESF LED = Solid green Indicates Extended Super Frame (ESF). The LED blinks once per second when a frame or CRC error occurs. SF LED = Solid green Indicates DS1 code options. If DS1 signals are not detected, the ESF, SF, B8ZS, and AMI) B8ZS LED = Solid green Indicates DS1 code options. If DS1 signals are not detected, the ESF, SF, B8ZS, and AMI) B8ZS LED = Solid green Indicates that the DS1 line code option is set to Bipolar with 8-Zero Substitution (B8ZS). The LED blinks once per second when a string of excessive zeros is detected. AMI LED = Solid green Indicates that the user DS1 line code option is set to Alternate Mark Inversion (AMI). This LED blinks once per second when a Bipolar Violation (BPV) is detected. Loopback (LPBK) LED Shows loopback states to and from the network and to and from the Customer Interface (CI). Noil yellow Blinking once per second Blinking ot mer second Indicates Customer Local Loopback (CLOC) loopback state. Blinking 4 times per Indicates the W2TL B is is an Armed st	HDSL2 LED	Displays HDSL2 Loop condition.
per Second Indicates the HDSL2 loop is trying to acquire sync. Blinking 4 times per second Indicates a margin alarm condition on the HDSL2 loop. Blinking 10 times per second Indicates a Cyclical Redundancy Check (CRC) error on the HDSL2 loop. DS1 Framing (FRM) LEDs (ESF and SF) Indicates framing patterns. If DS1 signals are not detected, the ESF, SF, B8ZS, an AMI LEDs will not light. ESF LED = Solid green Indicates Super Frame (ESF). The LED blinks once per second when a frame or CRC error occurs. SF LED = Solid green Indicates Super Frame (SF). The LED blinks once per second when a frame erro occurs. OFF Indicates Super Frame (SF). The LED blinks once per second when a frame erro occurs. DS1 Code LEDs (B8ZS and AMI) Indicates DS1 code options. If DS1 signals are not detected, the ESF, SF, B8ZS, and AMI LEDs will not light. B8ZS LED = Solid green Indicates that the DS1 line code option is set to Bipolar with 8-Zero Substitution (B8ZS). The LED blinks once per second when a string of excessive zeros is detected. AMI LED = Solid green Indicates that the user DS1 line code option is set to Alternate Mark Inversion (AMI). This LED blinks once per second when a Bipolar Violation (BPV) is detected. Loopback (LPBK) LED Solid yellow Shows loopback states to and from the network and to and from the Customer Interface (CI). Solid yellow Blinking once per second Indicates Retwork Remote Loopback (CLOC) loopback state.	Solid green	Indicates HDSL2 loop is in sync.
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DS1 Framing (FRM) LEDs (ESF and SF) Indicates framing patterns. If DS1 signals are not detected, the ESF, SF, B8ZS, an AMI LEDs will not light. ESF LED = Solid green Indicates Extended Super Frame (ESF). The LED blinks once per second when a frame or CRC error occurs. SF LED = Solid green Indicates Super Frame (SF). The LED blinks once per second when a frame erro occurs. OFF Indicates unframed or no signal. DS1 Code LEDs (B8ZS and AMI) Indicates DS1 code options. If DS1 signals are not detected, the ESF, SF, B8ZS, and AMI LEDs will not light. B8ZS LED = Solid green Indicates that the DS1 line code option is set to Bipolar with 8-Zero Substitutior (B8ZS). The LED blinks once per second when a string of excessive zeros is detected. AMI LED = Solid green Indicates that the user DS1 line code option is set to Alternate Mark Inversion (AMI). This LED blinks once per second when a Bipolar Violation (BPV) is detected. Loopback (LPBK) LED Shows loopback states to and from the network and to and from the Customer Interface (CI). Solid yellow Blinking once per second Blinking once per second Indicates Network Remote Loopback (CLOC) loopback state. Indicates the H2TLL P is is an Armed state.		Indicates a Cyclical Redundancy Check (CRC) error on the HDSL2 loop.
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SF LED = Solid green frame or CRC error occurs. OFF Indicates Super Frame (SF). The LED blinks once per second when a frame erro occurs. Indicates unframed or no signal. DS1 Code LEDs (B82S and AMI) B8ZS LED = Solid green Indicates that the DS1 line code option is set to Bipolar with 8-Zero Substitutior (B8ZS). The LED blinks once per second when a string of excessive zeros is detected. AMI LED = Solid green Indicates that the user DS1 line code option is set to Alternate Mark Inversion (AMI). This LED blinks once per second when a Bipolar Violation (BPV) is detected. Loopback (LPBK) LED Shows loopback states to and from the network and to and from the Customer Interface (CI). Indicates Customer Local Loopback (NREM). Indicates Customer Local Loopback (CLOC) loopback state. Blinking 4 times per Indicates the W2TL P is in an Armed state.		Indicates framing patterns. If DS1 signals are not detected, the ESF, SF, B8ZS, and AMI LEDs will not light.
OFF Indicates unframed or no signal. DS1 Code LEDs (B82S and AMI) Indicates DS1 code options. If DS1 signals are not detected, the ESF, SF, B8ZS, and AMI LEDs will not light. B8ZS LED = Solid green Indicates that the DS1 line code option is set to Bipolar with 8-Zero Substitution (B8ZS). The LED blinks once per second when a string of excessive zeros is detected. AMI LED = Solid green Indicates that the user DS1 line code option is set to Alternate Mark Inversion (AMI). This LED blinks once per second when a Bipolar Violation (BPV) is detected. Loopback (LPBK) LED Shows loopback states to and from the network and to and from the Customer Interface (CI). Solid yellow Blinking once per second Blinking once per second Indicates Customer Local Loopback (CLOC) loopback state. Indicates the H2TLL P is in an Armed state. Indicates the H2TLL P is in an Armed state.	ESF LED = Solid green	Indicates Extended Super Frame (ESF). The LED blinks once per second when a frame or CRC error occurs.
DS1 Code LEDs (B8ZS and AMI) Indicates DS1 code options. If DS1 signals are not detected, the ESF, SF, B8ZS, and AMI LEDs will not light. B8ZS LED = Solid green Indicates that the DS1 line code option is set to Bipolar with 8-Zero Substitutior (B8ZS). The LED blinks once per second when a string of excessive zeros is detected. AMI LED = Solid green Indicates that the user DS1 line code option is set to Alternate Mark Inversion (AMI). This LED blinks once per second when a Bipolar Violation (BPV) is detected. Loopback (LPBK) LED Shows loopback states to and from the network and to and from the Customer Interface (CI). Solid yellow Blinking once per second Blinking once per second Indicates Customer Local Loopback (CLOC) loopback state. Indicates the H2TLL P is in an Armed state. Indicates the H2TLL P is in an Armed state.	SF LED = Solid green	Indicates Super Frame (SF). The LED blinks once per second when a frame error occurs.
and AMI) and AMI LEDs will not light. B8ZS LED = Solid green Indicates that the DS1 line code option is set to Bipolar with 8-Zero Substitution (B8ZS). The LED blinks once per second when a string of excessive zeros is detected. AMI LED = Solid green Indicates that the user DS1 line code option is set to Alternate Mark Inversion (AMI). This LED blinks once per second when a Bipolar Violation (BPV) is detected. Loopback (LPBK) LED Shows loopback states to and from the network and to and from the Customer Interface (CI). Solid yellow Blinking once per second Blinking 4 times per Indicates the H2TLL P is in an Armed state.	OFF	Indicates unframed or no signal.
green (B8ZS). The LED blinks once per second when a string of excessive zeros is detected. AMI LED = Solid green Indicates that the user DS1 line code option is set to Alternate Mark Inversion (AMI). This LED blinks once per second when a Bipolar Violation (BPV) is detected. Loopback (LPBK) LED Shows loopback states to and from the network and to and from the Customer Interface (CI). Solid yellow Blinking once per second Blinking once per second Indicates Customer Local Loopback (CLOC) loopback state. Indicates the H2TLE P is in an Armed state.		Indicates DS1 code options. If DS1 signals are not detected, the ESF, SF, B8ZS, and AMI LEDs will not light.
(AMI). This LED blinks once per second when a Bipolar Violation (BPV) is detected. Loopback (LPBK) LED Shows loopback states to and from the network and to and from the Customer Interface (CI). Solid yellow Indicates Network Remote Loopback (NREM). Blinking once per second Indicates Customer Local Loopback (CLOC) loopback state. Blinking 4 times per Indicates the H2TLL P is in an Armed state.		
LOOPDACK (LPBK) LED Solid yellow Blinking once per second Blinking 4 times per Indicates the H2TLL P is in an Armed state	AMI LED = Solid green	(AMI). This LED blinks once per second when a Bipolar Violation (BPV) is
Blinking once per second Blinking 4 times per	Loopback (LPBK) LED	
Blinking 4 times per	Solid yellow	Indicates Network Remote Loopback (NREM).
		Indicates Customer Local Loopback (CLOC) loopback state.
seculu malades no h2 to the manning state.	Blinking 4 times per second	Indicates the H2TU-R is in an Armed state.

Table 1. Status LED Descriptions

3 Logging on to the Main Menu

The H2TU-R supports local and remote logon through a maintenance terminal (VT-100 or a PC running VT-100 terminal emulation software) connected to the craft port on the H2TU-R front panel.

The H2TU-R accesses menus and screens that are replications of those viewed at the H2TU-C. You can also view system settings and inventory, initiate loopbacks, monitor performance, and configure the circuit.

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	Systems, Inc. ain HDSL2		
l	800.638.0031 714.832.9924	l I	
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To connect to a maintenance terminal:

- Connect a standard 9-pin serial cable to the RS-232 craft port on the H2TU-R-402 List 6 front panel. Connect the other end of the cable to the serial port on the maintenance terminal.
- 2 Configure the maintenance terminal to the communications settings shown in the illustration above.
- 3 Start a terminal emulation program such as Procomm (emulating a VT100 terminal).
- 4 If necessary, press **CTRL** + **R** to refresh the HiGain HDSL2 logon screen.
- 5 Type the first letter of the desired menu. Use the **SPACEBAR** to cycle through menu selections, and press **ENTER** to change a setting or display a menu.

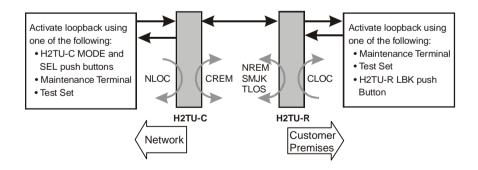
Type the first letter	To view:
M onitor	Monitors loopbacks and alarms, and provides a graphical representation of circuit activity, including ES, UAS, SES, and line code.
P erformance	Performance and alarm histories for current, 25-hour, 48-hour, or 31-day periods for either the DS1 or HDSL2 interface.
E vent Log	Identifies the 100 most recent system events and reports the date and time of occurrence.
C onfig	Standard configuration options, ADC options, date and time setting, and a reset option.
Inventory	Product information and circuit and device identifications.
Rlogon	Remote log on can be performed from the H2TU-R or H2TU-C. To log off the remote unit, press R . " <u>R</u> logout" changes to " <u>R</u> logon."
H elp	Glossary, a list of navigational keys, and ADC contact information.



Initial provisioning of the HiGain HDSL2 system is performed at the H2TU-C line unit. For more information, refer to the technical practice for the H2TU-C. It can be downloaded from the ADC web site at www.ADC.com.

4 LOOPBACK TESTING

Initiate loopback testing from the maintenance terminal menus or by using inband codes. The inband codes shown below can be sent by a test set. For more information, refer to the technical practice for the H2TU-C line unit.



Loopback	Inband Code	Description
NLOC	1111000	DSX-1 signal is looped back to the network at the H2TU-C.
NREM	1110000	DSX-1 signal is looped back to the network at the H2TU-R.
SMJK	11000	DSX-1 signal is looped back to the network at the H2TU-R SmartJack module.
CREM	1111110	Signal from customer is looped back to the customer at the H2TU-C.
CLOC	1111100	Signal from customer is looped back to the customer at the H2TU-R.
Loopdown	11100	Deactivates any of the above loopbacks.

FCC Class A Compliance

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Limited Warranty

Product warranty is determined by your service agreement. Contact your sales representative or Customer Service for details.

Modifications

Any changes or modifications made to this device that are not expressly approved by ADC DSL Systems, Inc. voids the user's warranty.

All wiring external to the products should follow the provisions of the current edition of the National Electrical Code.

Standards Compliance

This equipment has been tested and verified to comply with the applicable sections of the following standards:

- GR 63-CORE Network Equipment-Building System (NEBS) Requirements
- GR 1089-CORE Electromagnetic Compatibility and Electrical Safety
- Binational standard, UL-1950/CSA-C22.2 No. 950-95: Safety of Information Technology Equipment

Trademark Information

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Technical Assistance

800.638.0031 714.730.3222



Product: H2TU-R-402 L6 Part Number: 1144654 CLEI: VARHTRUG Product: H2TU-R-402 L6A Part Number: 1147792 CLEI: VAR1CBCA

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