

TYPE 400 SINGLE MOUNT HOUSING INSTALLATION/MAINTENANCE

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Figure 1. T400 Housing

1. GENERAL

1.1 This section provides installation and maintenance information for the ADTRAN Type 400 (T400) Single Mount Housing. **Figure 1** is an illustration of the unit. The part number and basic features for the unit are provided in **Table A**.

The T400 Housing is used to house a standard T400 circuit pack, and is capable of performing loop termination.

1.2 Future changes to this practice will be listed in this paragraph.

1.3 The T400 Housing is designed to accept any standard Type 400 plug-in card. For non-loop powered units, the T400 Housing can provide power to the circuit card through an external power supply. The ADTRAN 1353.DSK48V02 power supply can be used to provide -48 VDC from standard 120 VAC to power these cards.

The ADTRAN 1353.Power08 power supply can be used to provide -48 VDC from standard 220 VAC. These power supplies must be purchased separately. The T400 Housing also provides network and customer interface connections to the circuit card.

Table A. T400 Housing Basic Features

Unit	Part No.	Features
T400 Single Mount Housing	1242034L2	Stand alone Type 400 housing -48 VDC power connections Network connection through a terminal barrier strip Removable RJ-48C or RJ-48X jacks shipped with unit for easy connections to CPE Durable, hinged metal enclosure Wraparound transparent front panel for easy LED viewing Cover secured with thumb screw

DESCRIPTION

1.4 The ADTRAN T400 Housing, part number 1242034L2, is a Type 400 metal chassis that can be either table or wall-mounted. It houses a single T400 circuit card.

2. PHYSICAL DESCRIPTION

2.1 **Figure 1** shows the ADTRAN T400 Housing with the cover on. Connections are made available by unscrewing the lock screw and lifting the hinged cover.

2.2 Inside the housing is a terminal barrier strip (Figure 2) for connecting to the network, to the CPE, and to an external power source, if one is used. A grounding lug is provided for frame ground connections.

2.3 The rear panel of the T400 Housing contains a slot for either an RJ-48C jack (factory installed) or an RJ-48X jack (shipped loose) for CPE connections, and a portal for network and power connections (see **Figure 3**).

2.4 The T400 Housing is 2 inches high by 6.00 inches wide by 9.75 inches deep and weighs less than 1 pound. It can be mounted on a desk, table, or wall. The unit operating temperature range is -40°C to +70°C.

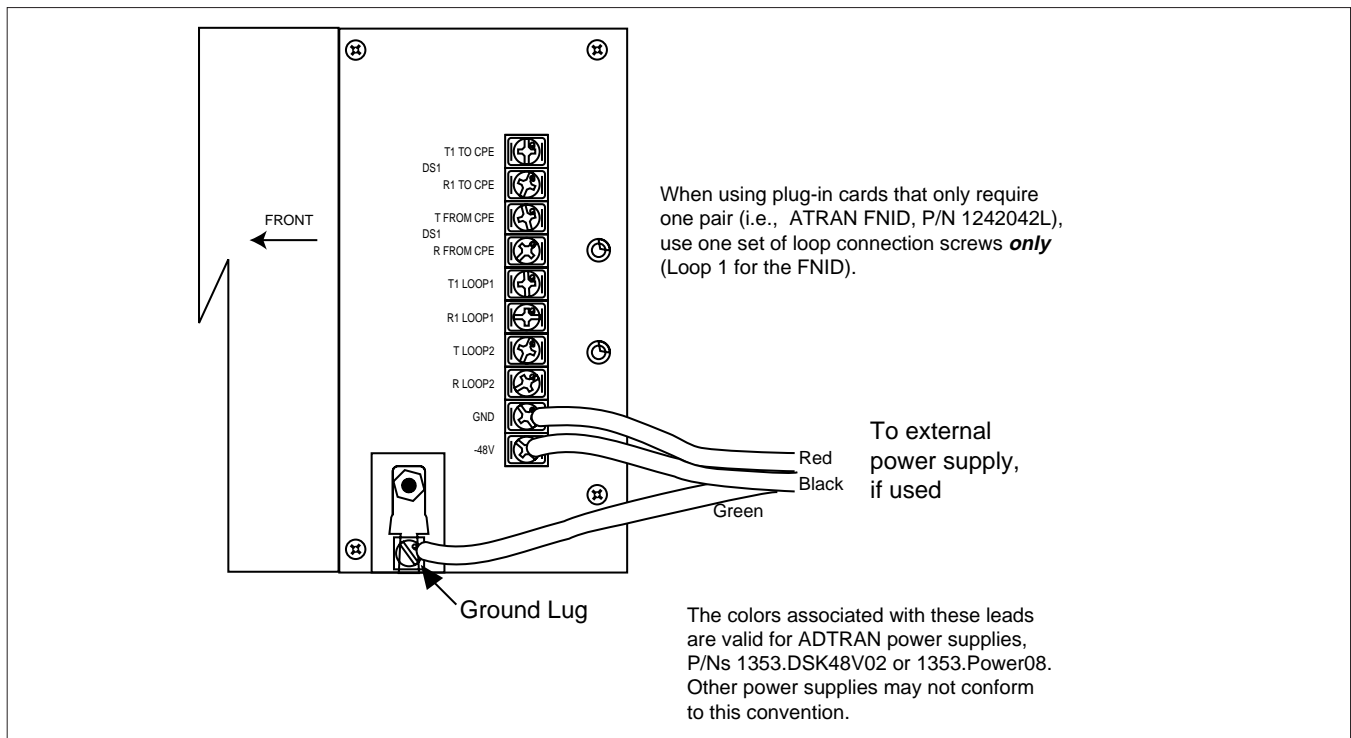


Figure 2. T400 Housing Terminal Barrier Strip

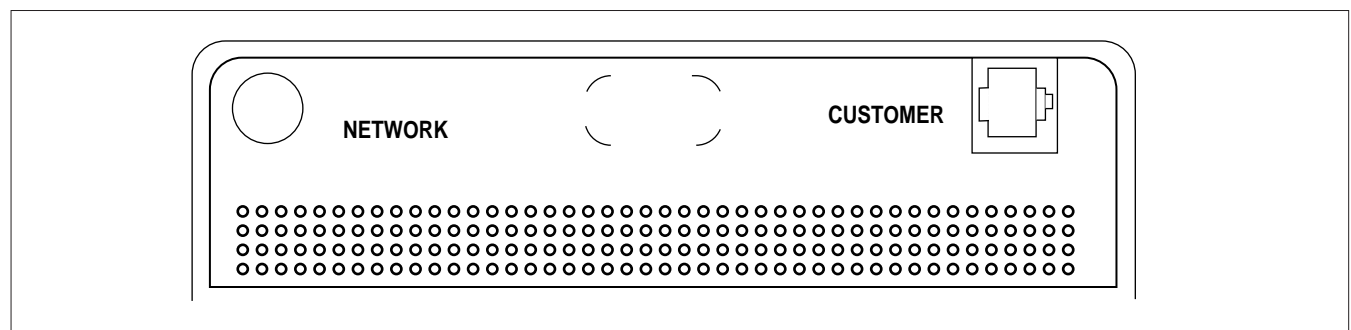


Figure 3. T400 Housing Rear Panel

3. INSTALLATION

3.1 After unpacking the unit, immediately inspect it for possible shipping damage. If damage is discovered, file a claim immediately with the carrier, then contact ADTRAN Customer Service (see **subsection 7**). Components shipped with the unit include the following:

- T400 chassis (including RJ-48C jack)
- RJ-48X jack (shipped loose)
- Three #8 screws
- Wall mounting template

3.2 The T400 chassis is designed to be wall or desk mounted. For wall mounting, three #8 screws have been included. Select a suitable position on a wall or desk for installation.

Figure 4 indicates the keyhole mounting in the base of the chassis. The three mounting screws should be located as shown. Drive the screws in to the mounting surface, leaving a clearance of at least 1/4 inch, and no greater than 1/2 inch.

A mounting template is provided with each unit to assist in locating the drill holes. The template attaches to the wall by a tape strip located across the top of the template. Remove the template from the wall after using.

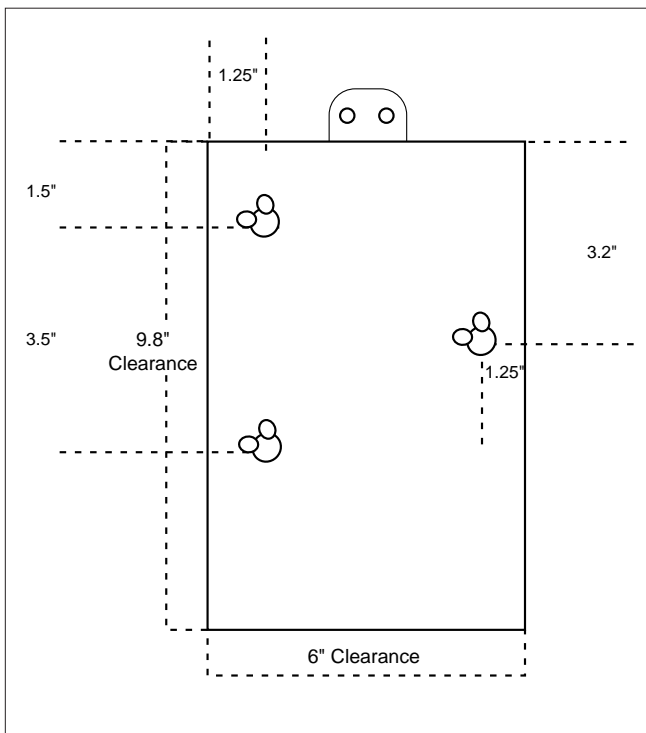


Figure 4. Wall Mounting Template Measurements

After the screws have been secured, place the unit over the screw heads and pull the base gently downward to position the screw heads on the narrow slot of the keyholes. If necessary, the screws may be tightened by lifting the top cover and torquing the screws from inside the base of the unit.

4. CONNECTIONS

4.1 Connections

The terminal barrier strip is used to make connections to the housing. The terminal strip is connected to the edge card connector to interface the connections to the circuit card. **Table B** describes the pinout of the edge card connector in relationship to the barrier strip. The RJ-48 jack along with the terminal strip, provides for CPE connection.

4.2 Power

The T400 Housing is designed to house a loop-powered or locally-powered circuit card. The terminal barrier strip provides the ability to connect an external -48 VDC supply to the circuit card. These connections are made to the -48 V and GND on the barrier strip (see **Figure 2**). Connection from the barrier strip to the edge card connector is described in **Table B**. A ground lug (see **Figure 2**) is provided to connect an external frame ground wire to the unit.

Table B. T400 Housing Terminal Block Interface Connection to Card Edge Connector

Pin	Designation	Description
1	CH GND	Chassis Ground
5	DS1-T1	DS1 Receive OUT Tip (to Customer Interface)
7	H1-T	HDSL Loop 1 Tip (Facility)
11	CH GND	Chassis Ground
13	H1-R	HDSL Loop 1 Ring (Facility)
15	DS1-R1	DS1 Receive OUT Ring (to Customer Interface)
41	H2-T	HDSL Loop 2 Tip (Facility)
47	H2-R	HDSL Loop 2 Ring (Facility)
49	DS1-R	DS1 Transmit IN Ring (from Customer Interface)
55	DS1-T	DS1 Transmit IN Tip (from Customer Interface)

5. SPECIFICATIONS

The specifications for the ADTRAN T400 Housing are listed in **Table C**.

Table C. Specifications

Mechanical	
Size:	6" Wide x 9 3/4" Deep x 2" High
Weight:	Less than 1 lb.
Mounting:	Tabletop or wall-mount
Environment	
Temperature:	Operating, -40°C to +70°C Storage, -40°C to 85°C
Relative Humidity:	Up to 95% non-condensing

6. REFERENCES

6.1 The following ADTRAN practices contain additional information concerning some of the T400 Circuit Packs designed to be used with the ADTRAN T400 Housing:

- 61242004L2-5 HTU-R
Installation/Maintenance
- 61242004L2-2 HTU-R Description
- 61242004L5-5 HTU-R (Intelligent Loopback)
Installation/Maintenance
- 61242026L1-5 Locally Powered
Installation/Maintenance
- 61242041L1-5 Fractional Network Interface
Device
Installation/Maintenance
- 61242037L1-5 E1 HTU-R
Installation/Maintenance

7. MAINTENANCE

7.1 The ADTRAN T400 housing requires no routine maintenance to operate properly. In case of equipment failure, remove the unit and replace it with another unit optioned in an identical manner.

7.2 ADTRAN does not recommend that repairs be performed in the field. Repair services may be obtained by returning the defective unit to ADTRAN.

8. WARRANTY AND CUSTOMER SERVICE

ADTRAN will replace or repair this product within five years from the date of shipment, if the product does not meet its published specifications or if it fails while in service. For detailed warranty, repair, and return information refer to the ADTRAN Equipment Warranty and Repair and Return Policy Procedure.

8.1 Return Material Authorization (RMA) is required prior to returning equipment to ADTRAN.

8.2 For service, RMA requests, or further information, contact one of the following numbers:

ADTRAN Customer Service:

- RMA (205) 971-8722
- Technical Support (800) 726-8663
- Applications Engineering (800) 615-1176
- Sales (205) 971-8090

Repair and Return Address:

ADTRAN, Inc.
901 Explorer Boulevard
Huntsville, Alabama 35806

