



The **TNP151** for the United States is shown inside table

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MANUAL PART NUMBER: 400-0110-003

## **TNP151/TNP152**

### **Tilt 'N Plug Jr.**

### **Interconnect Boxes**

### **USER'S GUIDE**

## INTRODUCTION

Your purchase of the **Tilt 'N Plug Jr.** Interconnect Box is greatly appreciated. We are sure you will find it reliable and simple to use.

Superior performance for the right price, backed by solid technical and customer support is what ALTINEX has to offer.

The product you are holding in your hands is designed using state-of-the-art technology and is superior to anything available on the market. You will find this and our other products reliable, long lasting, and simple to operate.

We are committed to providing our customers with signal management solutions to the most demanding audio-visual installations at very competitive pricing.

We appreciate your selection of our products and are confident that you will join the ranks of our many satisfied customers throughout the world.

### **This manual covers:**

**TNP151** - Tilt 'N Plug Jr. WITH (2) RJ-45 + (2) AC POWER OUTLETS Interconnect Box

**TNP152** - Tilt 'N Plug Jr. TWINS WITH (2) RJ-45 + (2) AC POWER OUTS Interconnect Box

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## PRECAUTIONS / SAFETY WARNINGS 1

Please read this manual carefully before using your **Tilt 'N Plug Jr.™** Interconnect Box. Keep this manual handy for future reference. These safety instructions are to ensure the long life of your **Tilt 'N Plug Jr.™** and to prevent fire and shock hazard. Please read them carefully and heed all warnings.

### 1.1 GENERAL

- Unauthorized personnel shall not open the unit since there are high-voltage components inside.
- Qualified ALTINEX service personnel, or their authorized representatives must perform all service.

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN
The lightning flash and arrowhead within the triangle is a warning sign alerting you of "dangerous voltage" inside the product.	CAUTION: TO REDUCE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE.

### 1.2 INSTALLATION

- For best results, place the **Tilt 'N Plug Jr.™** Interconnect Box in a dry area away from dust and moisture.
- To prevent fire or shock, do not expose this unit to rain or moisture. Do not place the **Tilt 'N Plug Jr.™** Interconnect Box in direct sunlight, near heaters or heat radiating appliances, or near any liquid. Exposure to direct sunlight, smoke, or steam can harm internal components.
- Handle the **Tilt 'N Plug Jr.™** Interconnect Box carefully. Dropping or jarring can damage internal components.
- Never place fingers inside the opening on each side of the unit. This action could cause serious injury because of the sharp edges inside of the **Tilt 'N Plug Jr.™**.

- Do not place heavy objects on top of the **Tilt 'N Plug Jr.™**. Do not use excessive force to push down on the top of the unit.
- To turn off the main power, disconnect the power cord, which powers the power socket on the **Tilt 'N Plug Jr.™** pop up panel only. The power outlet socket should be installed as near to the equipment as possible, and should be easily accessible.
- We recommend using wall outlets with a Ground Fault Circuit Interrupter (GFCI) for maximum protection.
- Install all cables according to the instructions. Do not force or pull out any cable or power cord that is attached to the **Tilt 'N Plug Jr.™** Interconnect Box.

### 1.3 CLEANING

- Surfaces should be cleaned with a dry cloth. Never use strong detergents or solvents, such as alcohol or thinner. Do not use a wet cloth or water to clean the unit.

### 1.4 FCC / CE NOTICE

- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- 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.

- Any changes or modifications to the unit not expressly approved by ALTINEX, Inc. could void the user's authority to operate the equipment.

## ABOUT YOUR "Tilt 'N Plug Jr."™ 2

**TNP151** and **TNP152** are members of a family of compact interconnection solutions designed for installation into a table in a presentation system. These products are designed for mounting into a table, podium, or other furniture to provide a way of connecting audio/visual equipment into a presentation system.

Both use the same core element, a multimedia input plate that can be "tilted" open when needed and pushed closed when not needed. The plate offers connectors for telephone (RJ-11), network (RJ-45) and AC electrical power (standard U.S. 3-prong connectors). The **TNP152** bezel incorporates two Tilt 'N Plug Jr. individual tower modules. Each can be operated independently; the **TNP152** can service from one to four users simultaneously. During installation of the **TNP152**, the individual tower modules can be reversed to face opposite directions through a simple field-modification to the bezel. This alternative configuration is handy for applications in which the **TNP152** needs to service two sides of a table simultaneously.

All signals are passed through the input plate to cables on the underside of the table, without passing through circuitry. In some applications, the use of additional ALTINEX signal management solutions — such as computer video interfaces, distribution amplifiers, and switchers — may be desirable.

In its closed position, the core element of the Tilt 'N Plug Jr. sits flush with the table. It can be raised into an open position by grasping the front lip of the top panel and lifting it. Once raised, the unit remains steady in its open position until pressure is applied to the top panel to close it. A pneumatic spring is used to insure smooth and easy opening/closing action.

The input plate on the **TNP151** is accessed by pushing down on the top panel, which will then auto-tilt open into view with help from a pneumatic spring

inside the unit. Once opened, the input plate remains securely in place. The input plate is hidden by pressing down on the top panel, which closes the lid. In its closed position, the top panel lies flush with the table top, held in place by a mechanical latching mechanism.

All Tilt 'N Plug Jr. solutions come with a standard top and bezel offering a high quality matte black finish.

Four optional finishes — Fine Antique Brass, Satin Blush White Gold, Fine Antique Chrome, and Antique Copper — are available on a custom order basis. Also, special bezel configurations may be available for large custom orders. Please contact an ALTINEX representative to discuss custom options.

## TECHNICAL SPECIFICATIONS 3

FEATURES/ DESCRIPTION	TNP151/TNP152
<b>GENERAL</b>	
	<b>Front Panel Standard Configuration Connectors</b>
<b>Telephone</b>	1-RJ-11 F (6-position)
<b>Network</b>	1 RJ-45 F (8-position)

Table 1. **TNP121** General

MECHANICAL	TNP151/TNP152
Width (inches)	4.10in (104mm)
Height (inches)	5.190in (132mm)
Finish	Matte Black
T° Operating	10°C-35°C
T° Maximum	50°C
Humidity	90% non-condensing

Table 2. **TNP121** Mechanical

ELECTRICAL	TNP151/TNP152
<b>Power</b>	
Power Rating (pass through two IEC connectors)	110~60Hz VAC, 2 Amps Max

Table 3. **TNP121** Electrical

## "Tilt 'N Plug Jr.™ DIMENSIONS 4

Diagram: 1A, 1B, 1C & 1D

**SIDE VIEW**  
(open position)

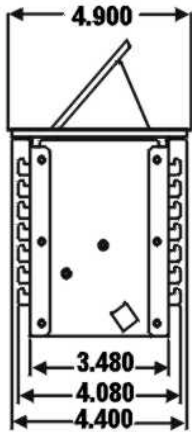


Diagram 1A

**FRONT VIEW**  
(open position)

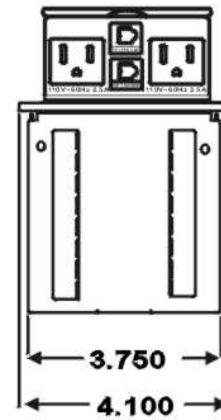


Diagram 1B

**TOP VIEW**  
(Closed position)

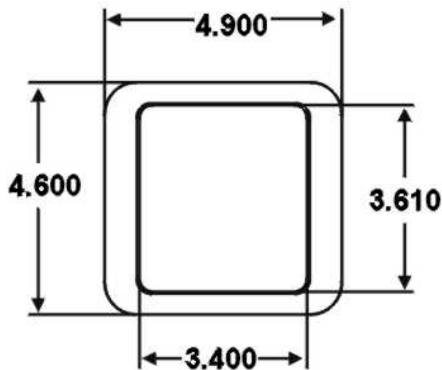


Diagram 1C

**SIDE VIEW**  
(Closed position)

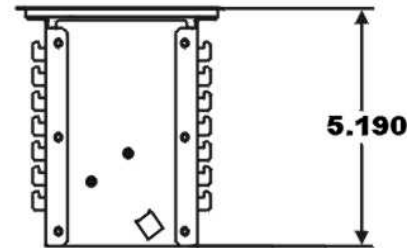
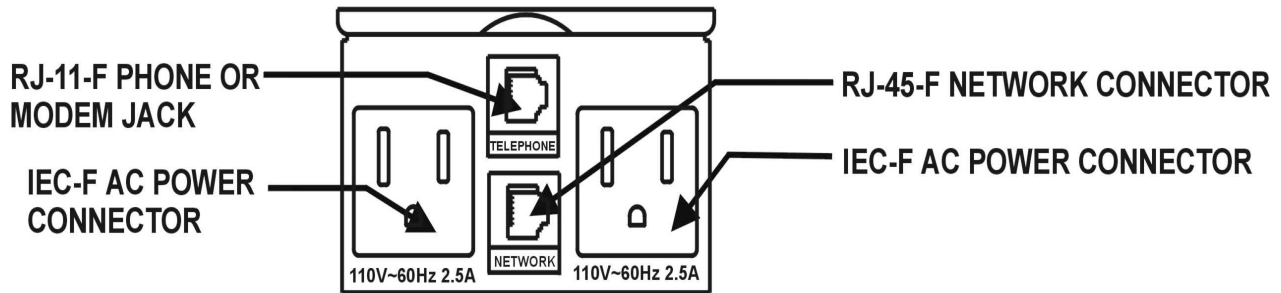


Diagram 1D

All dimensions are approximate per reference only CAD drawings available on the ALTINEX website at [www.altinex.com](http://www.altinex.com).

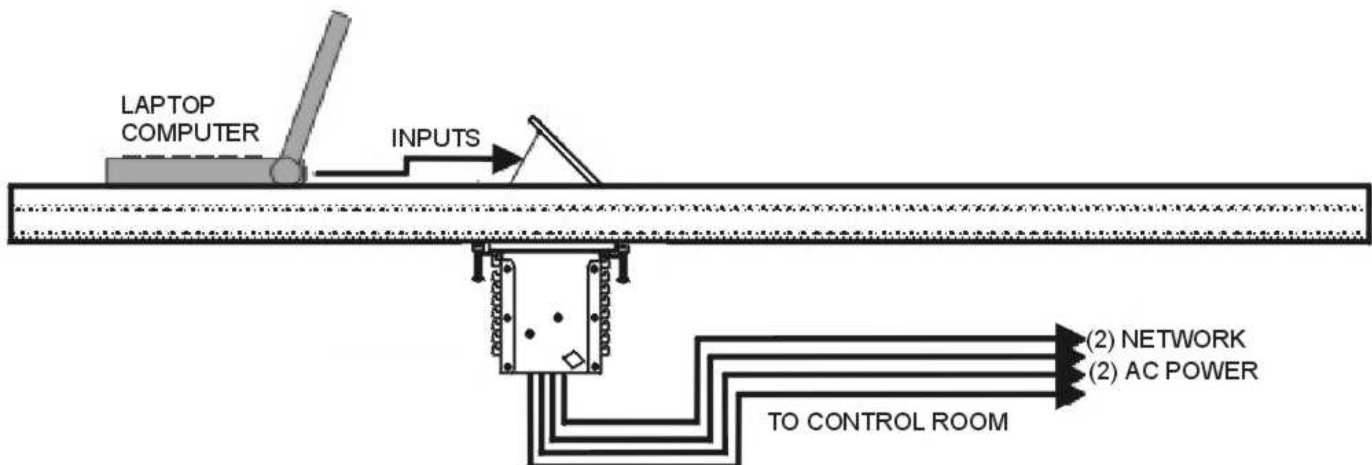
## DESCRIPTION DIAGRAM 5

Diagram 2: Faceplate Diagram for TNP151/TNP152



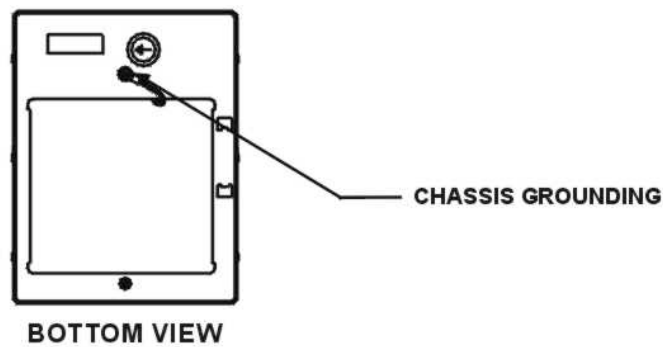
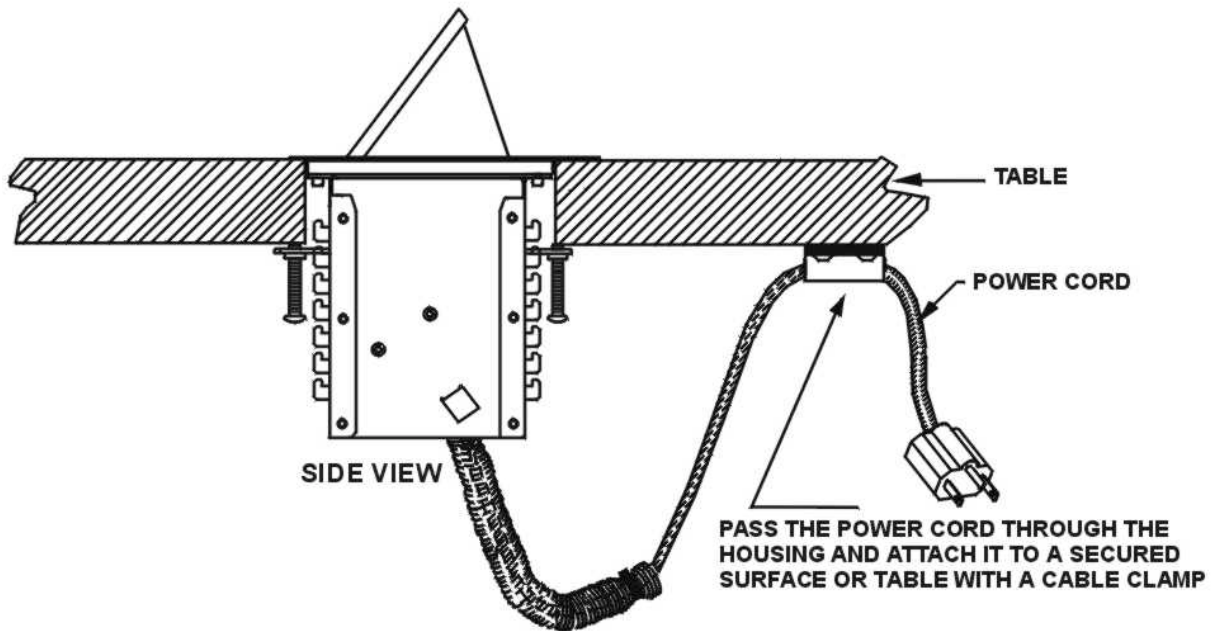
## APPLICATION DIAGRAM 6

Diagram 3: Application



## Diagram 4: Final Installation

TNP JR. IN AN OPEN POSITION



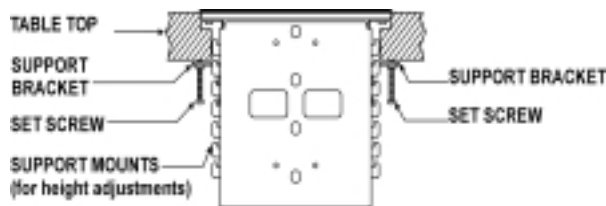
## INSTALLATION 7

**Step 1.** Cut an opening into the table's surface. Refer to the ALTINEX website for table cutout requirements.

Note: The table can be 3 inches or thinner in thickness. Always confirm dimensions before cutting to insure that specifications have not changed.

**Step 2.** Insert the your **Tilt 'N Plug Jr.™** into the table.

**Step 3.** Place the support brackets under the table and place them between the support mount grooves on the side of the your **Tilt 'N Plug Jr.™**. Attach the brackets to the groove at the desired height and secure them to the bottom of the table using the 6-32 screw. There are two support brackets, one for each side of the unit. (See Figure 1)



**Figure 1: Attachment of the Tilt 'N Plug Jr.™ to the table using support brackets and set screws**

**Step 4.** Secure the cables by using the provided cable clamp (See Figure 2). Pass the power cord from the bottom of the housing and attach it to the table using the cable clamp supplied with the your **Tilt 'N Plug Jr.™**. Do not keep the cord too tight or too loose (See Diagram 4, page 6).



**Figure 2: Cable Clamp**

**Step 5.** Connect the appropriate cables with the correct input connectors on the bottom of the unit. There is an RJ-11 connector for telephone and an RJ-45 connector for network.

**Step 6.** Once you have applied power and connected the proper cables on the bottom of the unit, you may raise the unit. To raise the your **Tilt 'N Plug Jr.™** into position, lift the top by pulling upward at the notch (lip) in the top plate.

**Step 7.** To lower the unit, push on the top of the **Tilt 'N Plug Jr.™** until it fits into place.

**For more information, please refer to the FAQ Section or the Troubleshooting Guide.**



## OPERATION 8

The **Tilt 'N Plug Jr.™** will operate successfully as long as all cables are attached properly and other technical specifications are followed.

## CABLES AND ACCESSORIES 9

Model No.	Description
<b>LABELS</b>	
<b>MS8301LB</b>	Input/Output Labels
<b>COVERS</b>	
<b>CVR1001</b>	Cover for PNP/TNP Cutouts
<b>INTERNATIONAL POWER ADAPTERS</b>	
<b>PC5402</b>	AC Power Adapter Cable, 1 ft. – United Kingdom (F) to IEC (M)
<b>PC5403</b>	AC Power Adapter Cable, 1 ft. – German (F) to IEC (M)
<b>PC5404</b>	AC Power Adapter Cable, 1 ft. – Australian (F) to IEC (M)
<b>PC5602</b>	AC Power Adapter – United Kingdom (M) to IEC (F)
<b>PC5603</b>	AC Power Adapter – German (M) to IEC (F)
<b>PC5604</b>	AC Power Adapter – Australian (M) to IEC (F)
<b>PC5301US</b>	AC Power Cable, 6 ft. – United States (M) to IEC (F)
<b>PC5302US</b>	AC Power Cable, 6 ft. – United Kingdom (M) to IEC (F)
<b>PC5303AU</b>	AC Power Cable, 6 ft. – Australian (M) to IEC (F)
<b>PC5304GR</b>	AC Power Cable, 6 ft. – Germany (M) to IEC (F)

## FREQUENTLY ASKED QUESTIONS (FAQ) 10

No:	Question	Answer
1	Why are the VGA connectors female on both ends of the cables?	Female cables are more reliable.
2	What happens if the spring breaks?	The unit will not stay open.
3	What do I do if the <b>Tilt 'N Plug Jr.™</b> won't stay open?	Replace the gas spring. Call ALTINEX for service information.
4	How much room is taken up on the underside of the table?	The unit is 4.5 inches deep maximum below the table; to this dimension add about 2.5 inches for cable clearance.
5	What if my table is thicker than 3 inches?	Then the area under the table near the <b>Tilt 'N Plug Jr.™</b> must be reduced to 3 inches of thickness.
6	Are cables available for connecting a PC/laptop to the <b>Tilt 'N Plug Jr.™</b> available?	Consider using MS8126CA (3ft) or MS8156CA (6ft) for VGA connection.
7	Does ALTINEX honor any warranty on field modifications?	Anything modified by non-ALTINEX personnel is not covered by warranty.

## TROUBLESHOOTING GUIDE 11

The **Tilt 'N Plug Jr.™** supplied unit was carefully tested and no problems were detected; however, we would like to offer the following suggestions:

- Please make sure that the highest quality network and telephone cables are used.
- Make sure that no cable or power cord is damaged or pinched. If there has been damage, then do not use the **Tilt 'N Plug Jr.™**. Immediately contact the ALTINEX Customer Service Department to have the unit repaired.

## ALTINEX POLICY 12

### 12.1 LIMITED WARRANTY

ALTINEX warrants that its products and cables are free from defects in materials under normal use and service. This warranty is limited to repairing at company's factory any part or parts of the product, which upon company's examination shall disclose to be, thus defective. Products considered defective should be returned to company with transportation charges pre-paid within 2 years (90 days for cables) from date of shipment to the purchaser. The warranty is expressly instead of all other warranties expressed or implied. ALTINEX neither assumes nor authorizes any other person to assume for it any other liability concerning the sale of the products. This warranty shall not apply to any product that shall have been repaired or altered outside of company's factory in any way so as, in its judgment, to affect its stability or reliability, or that has been subject to misuse, negligence, or accident.

### 12.2 RETURN POLICY

It is very important to ALTINEX that you receive all products that you have ordered and that this product meets your expectations. In the unlikely event that an ALTINEX product needs to be returned, please follow the policies below:

ALTINEX will accept all product returns for a period of 30 days from authorized ALTINEX dealers in an unopened package.

If a product has been opened, the restocking fees will apply. For the restocking fee, please contact an ALTINEX Sales Representative.

If the product is in your possession for more than 30 days, the restocking fees will apply.

ALTINEX will not accept any returns on cables or custom products.

If your product is in warranty and needs service, contact the ALTINEX Sales Department for an RMA (Return Material Authorization). Products returned without an RMA number may experience a delay in service.

If your product is out of warranty and needs service, contact the ALTINEX Sales Department for an RMA (Return Material Authorization). Products returned without an RMA number may experience a delay in service. The service charges will be quoted to you before the actual repairs are done.

### 12.3 CONTACT INFORMATION

#### ALTINEX, INC.

592 Apollo Street  
Brea, CA 92821 USA

TEL: 714-990-2300

TOLL FREE: 1-800-ALTINEX

WEB: [www.altinex.com](http://www.altinex.com)

E-MAIL: [solutions@altinex.com](mailto:solutions@altinex.com)

FAX: 714-990-3303