

TNP151 front View

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MANUAL PART NUMBER: 400-0110-005

## **TNP121/122/151/152**

**Tilt 'N Plug Jr.**

**Interconnect Boxes**

**USER'S GUIDE**

# TABLE TOP SOLUTIONS

## 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.

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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.



### 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

**TNP121/151** and **TNP122/152** 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 two RJ-45 connectors for network and AC electrical power (standard U.S. 3-prong connectors). The **TNP122/152** bezel incorporates two Tilt 'N Plug Jr. individual tower modules. Each can be operated independently; the **TNP122/152** can service from one to four users simultaneously. During installation of the **TNP122/152**, 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 **TNP122/152** 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 **TNP121/151** 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**

MECHANICAL	TNP151/TNP152
Width (inches)	4.10in (104mm)
Height (inches)	5.190in (132mm)
Finish	Matte Black
T° Operating	10°C-35°C
T° Maximum	70°C
Humidity	90% non-condensing

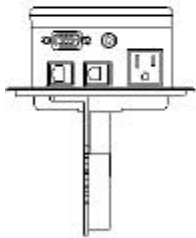
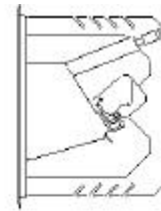
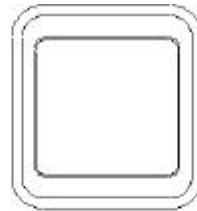
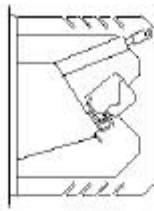
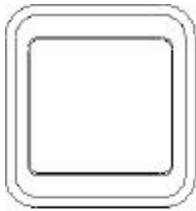
Table 1. **TNP121/151/TNP122/152** Mechanical

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

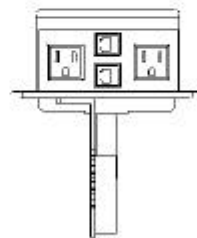
Table 2. **TNP121/151/TNP122/152** Electrical

## "Tilt 'N Plug Jr.™ DIMENSIONS 4

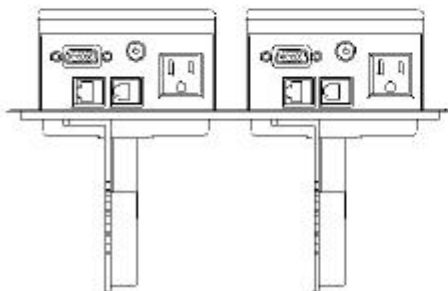
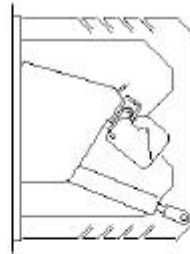
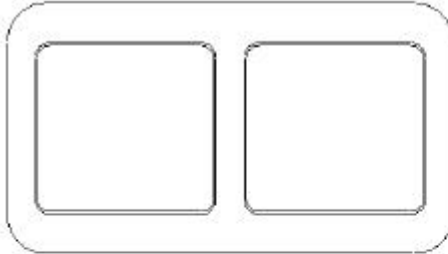
Diagrams:



**TNP121**



**TNP151**

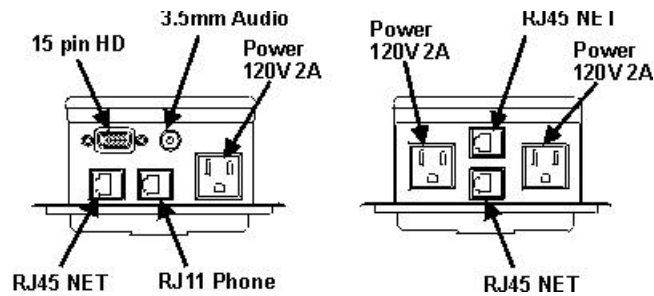


**TNP122/152 type**

Exact dimensions and the CAD drawings are available on the ALTINEX website at [www.altinex.com](http://www.altinex.com).

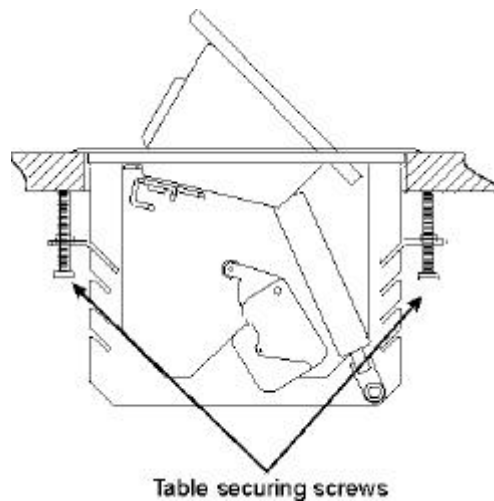
## DESCRIPTION DIAGRAM 5

Diagram 2: Faceplate Diagram for TNP21/151



## APPLICATION DIAGRAM 6

Diagram 3: Mounting Diagram



## INSTALLATION 7

**Step 1.** Cut an opening into the table's surface. Refer to the ALTINEX website at [www.altinex.com](http://www.altinex.com) 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.

**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

**Step 5.** Connect the appropriate cables with the correct input connectors on the bottom of the unit. There are two RJ-45 connectors 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.

## TROUBLESHOOTING GUIDE 8

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 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 9

### 9.0 LIMITED WARRANTY / RETURN POLICY

Please see Altinex web side for details on warranty and return policy.

### 9.1 CONTACT INFORMATION

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