

## UNMDU-VM Voice Module Installation and Cabling

### General

The **Uniprise**<sup>®</sup> UNMDU-VM voice module (CC0038927) provides bridged wiring for ordinary telephone signals. The jacks on the front of the module are used for connecting standard twisted-pair wiring utilizing 8-pin modular plugs. These connections may be used for voice telephone, computer modem, or fax machine connections. The telephone line input is bridged onto these jacks making all six jacks equivalent, so that any of the jacks may be used for any outlet. This bridged module can be used to provide telephone line bridging without requiring punch-down bridging on the rear of the module. The voice module is designed to mount in the UNMDU enclosure using the UNMDU-BKT-CDM1 panel (CC0062109), ordered separately.

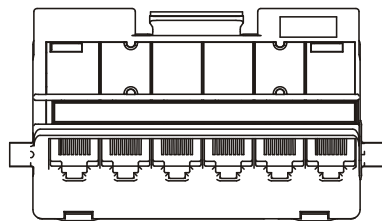
The voice module accepts three types of connections.

- One telephone service feed or telephone line input
- Up to six outputs for standard telephone outlet connection
- Bridging to other voice modules for additional telephone outlet connections.

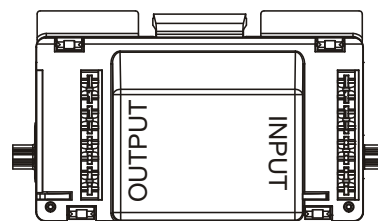
Do not use the voice module for any applications that require point-to-point connections, such as a data local area network (LAN). These applications cannot use the voice module, but must use the UNMDU-DM data module (CC0038885) instead.

### How to Contact Us

- To find out more about **CommScope**<sup>®</sup> **Uniprise** solutions, visit us on the web at <http://www.uniprisesolutions.com/>
- For customer support regarding **Uniprise** products, contact your local account representative or call 1-800-544-1948 or (828) 459-5000.



Front



Rear

### Voice Module

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This product is covered by one or more of the following U.S. patents or their foreign equivalents:  
6,464,541, 6,443,777, 6,290,546, 6,155,881, 6,086,428, 5,700,167, 6,053,764, 5,885,110, 5,639,261.

## Specifications

### Wire Termination

Wire Size: 22-26 AWG (0.64 - 0.40 mm) Solid Copper  
22-26 AWG (0.64 - 0.40 mm) Seven-Stranded Copper  
Insulation Size: 0.050 inch (1.27 mm) maximum DOD

### Reterminations

IDC Contact: 200 minimum  
Modular Jack: 750 minimum

### Environmental Data

Temperature Range: -40°F (-40°C) to 158°F (70°C) (Storage)  
14°F (-10°C) to 158°F (70°C) (Operational)  
Humidity: 95% Noncondensing

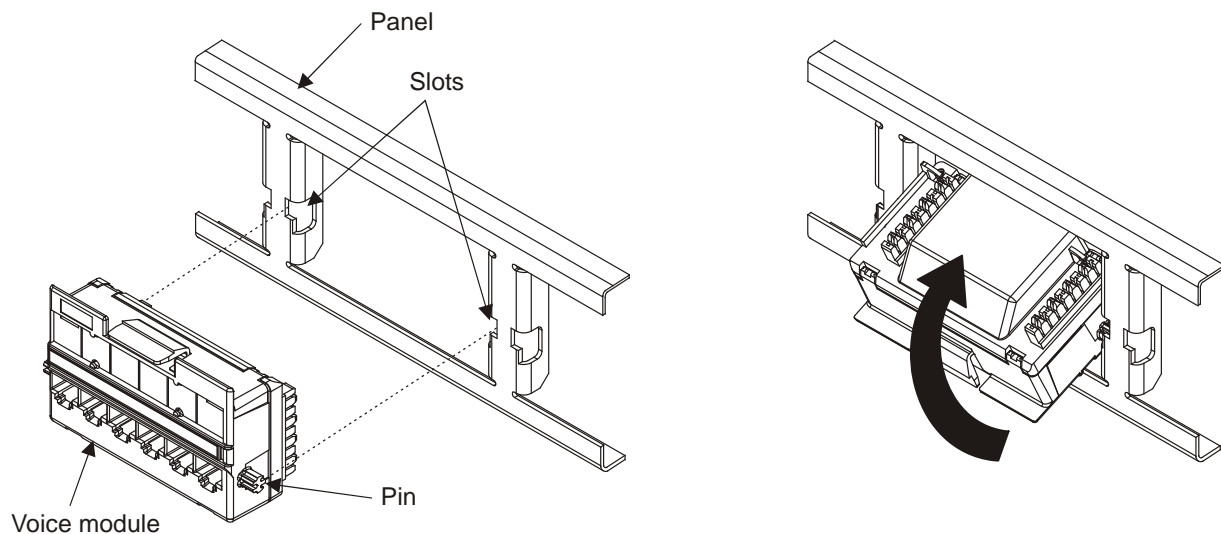
## Precautions

When installing and using this product, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. Read and understand these instructions before installation.
2. Follow all warnings and instructions marked on the product.
3. Never install telephone jacks in a wet location unless jack is designed for wet locations.
4. Never install this product during a lightning storm. There is a remote risk of electric shock.
5. Never touch uninsulated communication wires or terminals.

**CAUTION:** All wiring that connects to this equipment must meet applicable local and national building codes and network wiring standards for communications cable.

## Installation

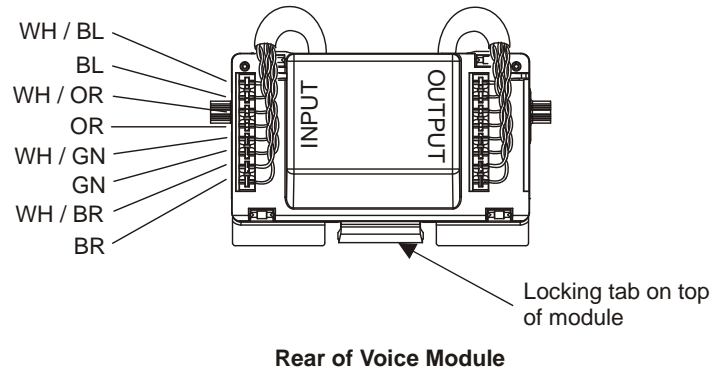


**Note:** The voice module is designed to mount in the UNMDU-BKT-CDM1 panel (CC0062109).

1. Orient module so that numbers on front are right side up. Place pins on sides of module into slots at side of panel opening.
2. Pivot module up until it snaps into place.

## Connecting the Telephone Service Feed (Input)

A home wiring system may use multiple voice modules, depending on the number of outlets in the system. The telephone service feed connects to the first module, and the remaining bridged modules are then daisy chained together. The connection of the telephone service feed is equivalent to the jumper between two modules, and these instructions apply to either connection.



1. Press locking tab on top of module down to release and rotate module so back surface is facing you as shown in figure above.
2. Dress telephone input cable to pass from the rear through panel opening that voice module occupies.
3. Remove 1-1/2 inches (38 mm) of jacket from input cable, taking care not to nick insulation on the twisted pairs.
4. Separate the four pairs from each other, taking care not to separate the two conductors of each pair.
5. Using punch-down tool, terminate each pair of conductors to terminals in IDC field labeled Input on left side of module. The conductors must enter the terminal from the right, with end of conductor protruding to left. The T568A color sequence, as shown on label, is Blue, Orange, Green, and Brown.
6. If punch-down tool does not cut the excess conductor, then trim loose end of each conductor where it emerges from terminal.
7. Rotate module back into panel until locking tab engages.

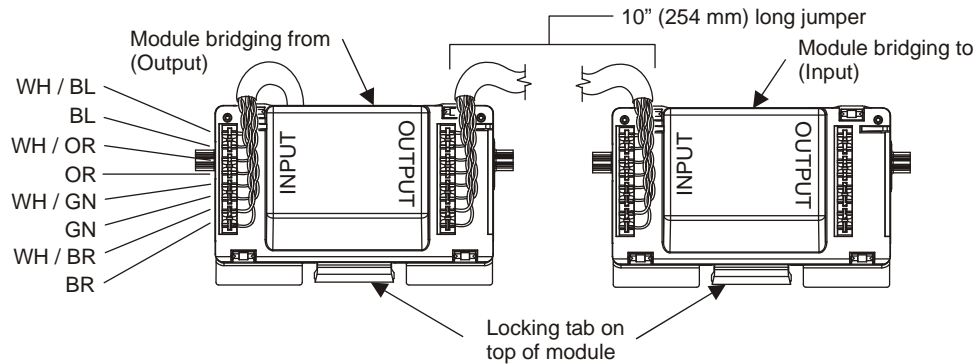
## Connecting the Telephone Outlet Cables (Output)

1. Route and terminate outlet cables accordingly.
2. Dress outlet cables as they enter enclosure to come to front of voice module.
3. Install an 8-pin modular plug on cable per instructions furnished with the plug.
4. Push plug into any jack on voice module.
5. Label each jack with location of outlet.
6. Repeat for up to six outlet cables.

## Connecting to Additional Voice Modules for Expansion

For systems requiring more telephone outlets than one module provides, the voice module allows simple expansion to support additional capacity. This expansion may be connected in one of two ways. In **Method 1**, a jumper cable is used to connect the IDC blocks on the rear of the modules. In **Method 2**, a standard jumper cord is plugged into a modular jack on the front. Using a jumper cord reduces by one the number of jacks available for outlet cables, but otherwise the two connections are equivalent.

### Method 1



### Rear of Voice Module

1. Press down to release locking tab on top of module and rotate module so that back surface is facing you as shown in figure above.
2. Cut a 10-inch (254 mm) length of twisted-pair cable to use as a jumper. Remove 1-1/2 inches (38 mm) of jacket from each end of cable.
3. At one end of cable, separate the four pairs from each other, taking care not to separate the two wires of each pair.
4. Punch down each pair in turn to terminals in IDC field labeled Output on right side of module. The wires must enter the terminal from the right, with end of wire protruding to left. The T568A color sequence as shown on the label, is Blue, Orange, Green and Brown.
5. Trim loose end of each wire where it emerges from its terminal.
6. Dress jumper cable through panel opening, then behind panel to next module position and back out through panel opening.
7. If not already in place, place second module in panel.
8. Following steps 3, 4, and 5 terminate end of jumper onto Input field of second module.
9. Repeat this procedure to connect any additional daisy-chained bridged modules.
10. When finished, rotate each module back into panel until locking tab engages.

### Method 2

1. Using a standard jumper cord with 8-pin modular plugs on each end, push plug on one end into any jack on module.
2. Push other end of jumper cord into any jack on receiving bridged module.
3. Repeat this procedure to connect any additional daisy-chained bridged modules.