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Channel Vision C-0216

Channel Vision 110 Telecom and RF Service Module C-0216 User Manual

Model: C-0216

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Channel Vision 110 Telecom and RF Service Module, Model C-0216. This module is designed to integrate telephone and CATV distribution within a structured wiring system, offering robust connectivity for residential and commercial applications.

The C-0216 module supports up to six telephone outlets, each capable of handling four lines, and includes a 4-way RF splitter for efficient CATV distribution. It features mini 110 punch down connectors for reliable wiring and is compliant with TIA/EIA-568A and TIA 570 standards, ensuring compatibility with CAT 5e cabling. All ports are designed to be modem, DC, and IR passing, providing versatile functionality.

SAFETY INFORMATION

- **Read all instructions:** Before installation and operation, carefully read and understand all instructions provided in this manual.
- **Qualified personnel:** Installation should be performed by qualified personnel familiar with telecommunications and RF wiring practices.
- **Power considerations:** Ensure all power to connected devices is disconnected before performing any wiring or installation procedures to prevent electrical shock.
- **Environmental conditions:** Do not expose the module to moisture, extreme temperatures, or direct sunlight. Install in a dry, protected environment.
- **Proper tools:** Use appropriate tools, such as a 110 punch down tool, for installation to avoid damage to the module or wiring.

PACKAGE CONTENTS

Verify that all items are present in the package:

- Channel Vision 110 Telecom and RF Service Module C-0216
- Mounting screws (if applicable, typically included for structured wiring enclosures)
- This instruction manual

SETUP AND INSTALLATION

The C-0216 module is designed for installation within a structured wiring enclosure. Follow these steps for proper setup:

1. Mounting the Module

1. Select a suitable location within your structured wiring enclosure. Ensure adequate space for cable routing and ventilation.
2. Align the module's mounting holes with the standoffs or mounting points in the enclosure.
3. Secure the module using the provided mounting screws. Do not overtighten.

2. Connecting Telephone Lines

The module features mini 110 punch down connectors for telephone wiring. It supports up to 6 telephone outlets, each with 4 lines.

1. Identify the incoming telephone lines (e.g., from the service provider's demarcation point).
2. Using a 110 punch down tool, terminate the incoming telephone lines to the designated "INPUT" section of the 110 block on the module. Refer to the TIA/EIA-568A wiring standard for correct pair assignments (e.g., blue/white-blue for line 1, orange/white-orange for line 2, etc.).
3. Connect the CAT 5e cables running to your telephone outlets to the "OUTPUT" sections (labeled 1 through 6) of the 110 block. Ensure consistent wiring color codes for each line to maintain proper connectivity at the wall jacks.
4. Verify all connections are secure and properly punched down.

3. Connecting RF (CATV) Cables

The module includes a 4-way RF splitter for CATV distribution.

1. Locate the incoming RF signal cable (e.g., from the cable provider's drop).
2. Connect the incoming RF signal cable to the "IN" port on the module's coaxial splitter section.
3. Connect the coaxial cables running to your CATV outlets to the "OUT" ports on the module. The module provides four "OUT" ports for distribution.
4. Ensure all F-connectors are tightened securely to prevent signal loss.



Figure 1: Front view of the Channel Vision C-0216 module. The top section shows the 110 punch down block with "INPUT" and "OUTPUT" labels for telephone lines 1 through 6. The bottom section displays coaxial F-connectors labeled "OUT", "OUT", "IN", "OUT", "OUT" for RF signal distribution. The model number C-0216 is visible on the right side.

4. Final Checks

- Double-check all wiring connections for proper termination and polarity.
- Ensure cables are neatly routed and secured within the enclosure to prevent strain or damage.
- Once all connections are verified, restore power to any connected active devices (e.g., modem, telephone system).

OPERATING INSTRUCTIONS

The Channel Vision C-0216 is a passive distribution module and does not require active operation once installed. Its function is to distribute telephone and RF signals to various outlets within a building.

- **Telephone Distribution:** Once telephone lines are properly connected to the 110 punch down block, dial tone and telephone services will be available at all connected telephone outlets. Each outlet supports up to 4 lines, depending on how the 110 block is wired.
- **RF (CATV) Distribution:** After the incoming RF signal is connected to the "IN" port and outgoing cables to the "OUT" ports, CATV signals will be distributed to all connected television or cable

modem outlets. The module acts as a 4-way splitter.

- **Modem, DC, and IR Passing:** All ports on the module are designed to pass modem signals, DC power, and IR (infrared) signals. This allows for compatibility with various devices and remote control extender systems without signal degradation through the module.

MAINTENANCE

The C-0216 module is designed for long-term, maintenance-free operation. However, periodic checks can help ensure optimal performance:

- **Visual Inspection:** Periodically inspect the module and its connections within the structured wiring enclosure. Look for any loose cables, damaged insulation, or signs of corrosion.
- **Cleaning:** If necessary, gently clean the exterior of the module with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Environmental Check:** Ensure the enclosure remains dry and free from dust and debris. Maintain proper ventilation if the enclosure is sealed.

TROUBLESHOOTING

If you experience issues with your telephone or RF distribution, consider the following troubleshooting steps:

- **No Dial Tone or Intermittent Telephone Service:**
 - Verify that the incoming telephone lines are active and properly connected to the "INPUT" section of the 110 block.
 - Check all 110 punch down connections for secure termination. Re-punch any loose connections.
 - Ensure the CAT 5e cables to the outlets are correctly wired according to TIA/EIA-568A standards.
 - Test individual telephone outlets with a known working phone.
- **Poor or No CATV Signal:**
 - Confirm that the incoming RF signal is active and connected to the "IN" port of the module.
 - Check all F-connector connections for tightness. Loose connections can cause significant signal loss.
 - Inspect coaxial cables for kinks, cuts, or damage.
 - Note that a 4-way splitter will introduce some signal loss. If signal strength is critically low, consider an amplified splitter (not this module) or consult your cable provider.
- **Interference or Noise:**
 - Ensure all cables are properly shielded and routed away from potential sources of electromagnetic interference (e.g., power cables, large appliances).
 - Verify proper grounding of the structured wiring enclosure and associated components.

SPECIFICATIONS

Model Number	C-0216
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Brand	Channel Vision
Telephone Support	Up to 6 telephone outlets, 4 lines per outlet
RF Splitter	4-way CATV distribution
Connectors	Mini 110 punch down (telephone), F-type coaxial (RF)
Compliance	TIA/EIA-568A, TIA 570 compliant; CAT 5e compatible
Port Features	Modem, DC, and IR passing
Dimensions (LxWxH)	9 x 6 x 3.25 inches
Weight	1.09 pounds

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Channel Vision website or contact their customer service department. Keep your purchase receipt as proof of purchase for any warranty claims.

Channel Vision Contact Information:

- **Website:** www.channelvision.com
- **Customer Service:** Refer to the website for current contact numbers and support hours.