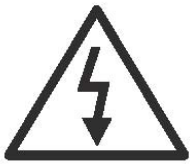
CABLETRONIX™

INSTALLATION MANUAL

CTMS-16RKPS
Rack Mount Satellite Multiswitch with Power Supply

IMPORTANT INFORMATION



The lighting flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DO NOT OPEN THE CABINET, REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

PACKAGE CONTENTS

This package contains:

One CTMS-16RKPS Rack Mount Satellite Multiswitch
One CTMS-16RKPS Power Supply
One CTMS-16RKPS Instruction Manual

PRODUCT DESCRIPTION

The CTMS-16RKPS is a professional grade rack mountable satellite multiswitch providing RHCP and LHCP switching for up to 16 satellite receivers. Designed for commercial grade satellite headends, the CTMS-16RKPS inputs are selected by 17V to 18V from the satellite receiver for right hand circular polarization, and 13V to 14V for left hand circular polarization. The CTMS-16RKPS permits satellite intermediate frequency (IF) distribution of 950 – 2150 MHz from the outputs of a dual LNB to up to 16 satellite receivers. The unit's quality design and engineering make the CTMS-16RKPS an excellent choice for cost effective SMATV installation, operation and maintenance.

SPECIFICATIONS

CTMS-16RKPS

Rack Mountable Satellite Multiswitch with Power Supply Specifications (Typical)

RF	
1. Frequency Range	950 – 2150 MHz
2. Satellite Receiver Number	16
3. Impedance	75 Ohms
4. Insertion Loss	0 dB typical, +/- 3 dB over range
5. Isolation RHCP/LHCP input to non-selected Rx ports	30 dB typical
6. Isolation Rx ports to Rx ports	30 dB typical
7. DC Power pass (any Rx to RHCP/LHCP input)	500mA typical
8. Power Consumption	140mA typical
9. Voltage Selection	RHCP 17V – 18V LHCP 13V – 14V
GENERAL	
1. Operating Temperature	32 ˚F ~ 122 ˚F
2. Connectors	All "F" Type
MECHANICAL	
1.Dimensions	19" (W) x 1" (H) x 3.8" (D)
2.Weight	3 lb. 5 oz.

INSTALLATION AND OPERATION

NOTE TO SYSTEM INSTALLER

System installer must adhere to Article 820-40 of the NEC that provides guidelines for proper grounding and specifies that the cable ground shall be connected to *the grounding system of the building*, as close to the point of cable entry as practical.

1. UNPACKING and HANDLING

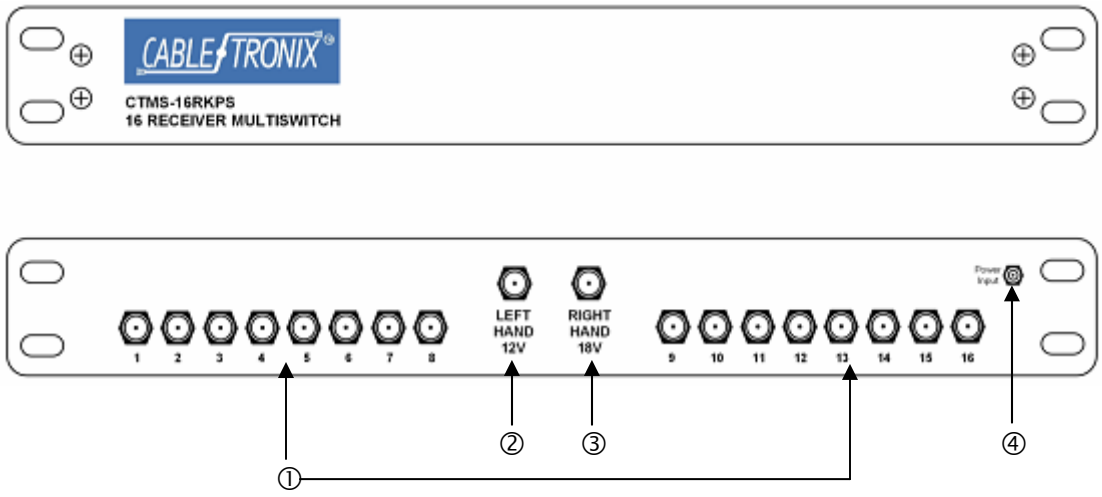
Each unit is shipped with all equipment assembled, and factory tested.

Ensure that all accessories are removed from the container before discarding packing material

2. MECHANICAL INSPECTION

Inspect the front and rear of the equipment for shipping damage. Make sure the equipment is clean, and no connectors are broken, damaged, or loose. If equipment appears to be damaged or defective please contact us at 1-610-429-1511 for assistance.

3. PRODUCT DIAGRAM



1	**Output Ports to Satellite Receivers**	Connections for up to 16 satellite receivers
2	**LHCP LNB Input Port**	Connection for the LHCP LNB (13V – 14V)
3	**RHCP LNP Input Port**	Connection for the RHCP LNB (17V – 18V)
4	**Power Input**	Port of the CTMS-16RKPS Power Supply

4. HARDWARE CONNECTIONS

a. The CTMS-16RKPS is designed for installation in a standard 19" EIA rack.

b. Connect a 75ohm coaxial cable with F-connectors from the LHCP LNB Output to the CTMS-16RKPS' LHCP LNB Input port.

c. Connect a 75ohm coaxial cable with F-connectors from the RHCP LNB Output to the CTMS-16RKPS' RHCP LNB Input port.

d. Connect a 75ohm coaxial cable with F-connectors from one of the CTMS-16RKPS's Output ports to the input of a satellite receiver. Repeat for each satellite receiver.

e. Connect the power supply's 3.5mm plug to the CTMS-16RKPS's Power Input port. Plug the power supply into a 120 VAC, 60Hz receptacle.

f. Each satellite receiver can select programs in either RHCP or LHCP. To select RHCP, a 17/18 DC voltage is used. To select LHCP, a 13/14 DC voltage is used.

5. ADJUSTMENT

No adjustments to the CTMS-16RKPS can be made.

However, it is important to ensure all headend equipment including modulators, combiners, and amplifiers are adjusted to the proper signal levels per the headend design specifications.

6. TROUBLESHOOTING

a. Ensure you are using quality multiple shielded cables with quality radial or compression F-connectors.

b. Ensure the F-connector's center conductor is making solid contact with the CTMS-16RKPS Input and Output ports, the LNB connectors, and the satellite receiver input connectors.

c. Further troubleshooting assistance can be found on-line at www.northamericancable.com and www.cabletronix.com in addition to support from Cabletronix sales engineers at 1-610-429-1511.