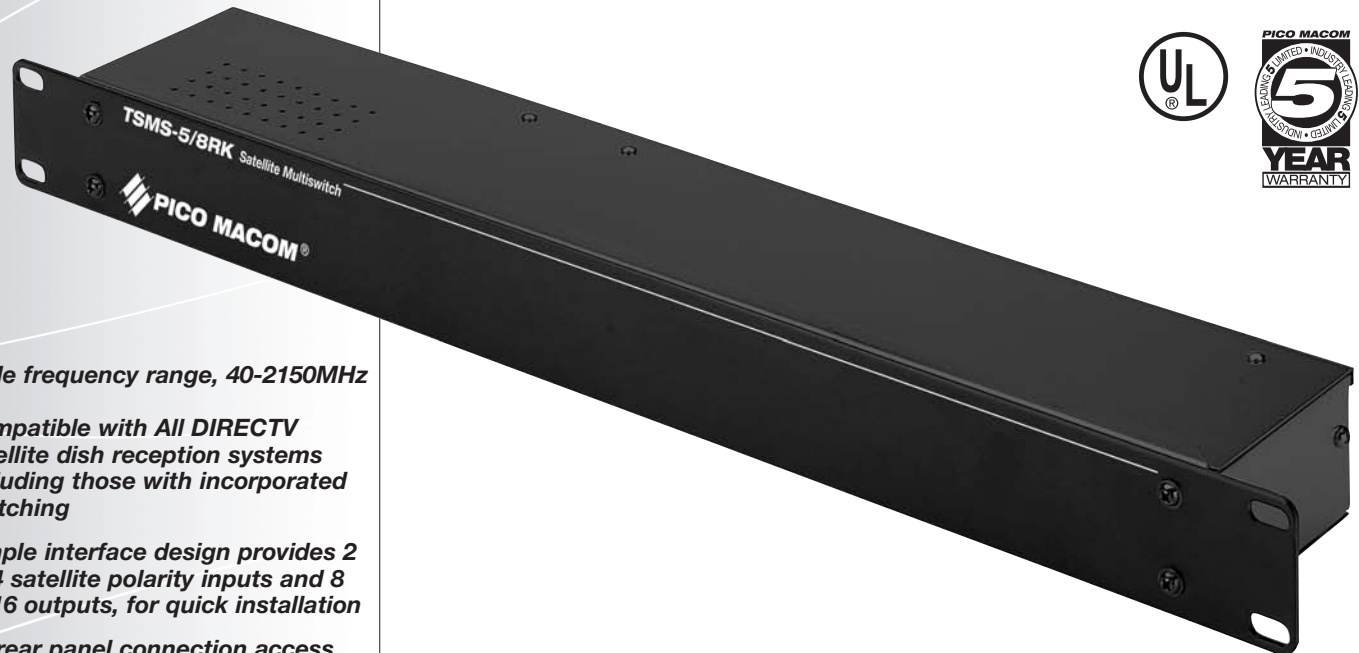




# TSMS-5/8RK

**Rack-Mounted 14V/18V Satellite Multiswitch**



- Wide frequency range, 40-2150MHz
- Compatible with All DIRECTV satellite dish reception systems including those with incorporated switching
- Simple interface design provides 2 or 4 satellite polarity inputs and 8 or 16 outputs, for quick installation
- All rear panel connection access allows rack or wall mount flexibility
- PIN diode matrix reduces polarity transfer time and digital artifacts providing consistent picture quality
- Polarity is selected by receiver supplied voltage (14V/18VDC) compatible with most DTH satellite services
- Antenna signal combines with satellite on output eliminating external combining, reducing cost and clutter
- Built in DC power insertion reduces cost by providing for LNB power from the multiswitch
- Built-in amplifier compensates for insertion losses reducing need of external amplification
- External UL Approved power supply reduces heat buildup thus increasing unit life

## TSMS-5/8RK

**Rack-Mounted 14V/18V Satellite Multiswitch**

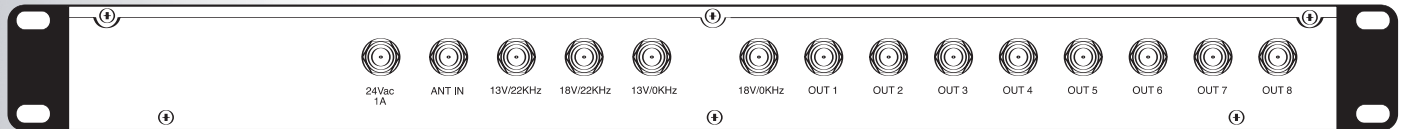
Pico Macom's TSMS-5/8RK rack-mounted satellite multiswitch can be used in every SMATV application requiring satellite 950-2150MHz IF distribution. The easy mount enclosure and all rear panel connections provide for rack mounting or quick and easy wall mounting by simply turning the unit face to the wall. The **TSMS-5/8RK** is compatible with DIRECTV phase three dish reception systems by allowing 4 LNB inputs and 1 antenna and providing 8 outputs. A constant 22 kHz tone is provided on 2 of the input ports and 14 or 18 dc volts are provided to power the LNB and conduct internal switching. The advanced circuit design incorporates a pin diode matrix to route any of the inputs to any of the outputs by utilizing the 13-14V Right-Circular/Vertical or 17-18V Left-Circular/Horizontal switching control supplied by the satellite receivers, thus eliminating digital artifacts that result from mechanical relay switching. To compensate for insertion loss, the **TSMS-5/8RK** uses separate built-in amplifiers for satellite and/or VHF/UHF signals. The **TSMS-5/8RK** will supply power to the LNBs reducing heat build up within the multiswitch and prolong the life of the unit.

# TSMS-5/8RK

**Rack-Mounted 14V/18V Satellite Multiswitch**



Front View



Rear View

## Specifications

<b>Frequency Range</b>		54-2150 MHz	<b>Input Capability</b>		
Antenna In		54-806 MHz	1 dB Compression		
Satellite In		950-2150MHz	Antenna In	106 dBµV min.	at 67.25 MHz Input
			Satellite In	108 dBµV	at 950 MHz Input
<b>Insertion Loss</b>			<b>LHCP/RHCP Switching Point</b>		
(Antenna In)	-3.0 dB max.	54-806 MHz		14.0 – 15.0 Vdc	
(Satellite In)	-3.0 dB max.	950-1750 MHz			
	-5.0 dB max.	1751-2150 MHz	<b>22kHz Switching Point</b>	150 – 300mVp-p	Square Wave Test Signal
<b>Isolation</b>			<b>Output 22kHz Signal</b>		22 ±4 kHz
Cross Polarization	-35 dB min.	950-1450 MHz			
	-30 dB min.	1451-2150 MHz	<b>Characteristic Frequency Amplitude</b>	650 ± 250 mV p-p	
Out to Out	-40 dB min.	950-2150 MHz			
Sat In to Sat In	-45 dB min.	950-2150 MHz	<b>Impedance</b>	75 ohms	All Ports
<b>Stop Band Attenuation</b>			<b>Adaptor Power</b>		
	15 dB min.	Ant port @ 950 MHz	Power Input	115 Vac ±10%, 60 Hz	
	15 dB min.	Sat port @ 806 MHz	Power Output	24 Vdc, 1 A	
<b>Return Loss</b>			<b>Dimensions</b>		
Input / Output	-7 dB min.	40-806 MHz		19"(L) x 3.0"(D) x 1.75"(H)	
	-12 dB min.	950-2150 MHz	<b>Weight</b>	4.8 lbs.	

## Ordering Information

**TSMS-5/8RK** DIRECTV Phase 3 ODU Compatible 5 Input 8 Output