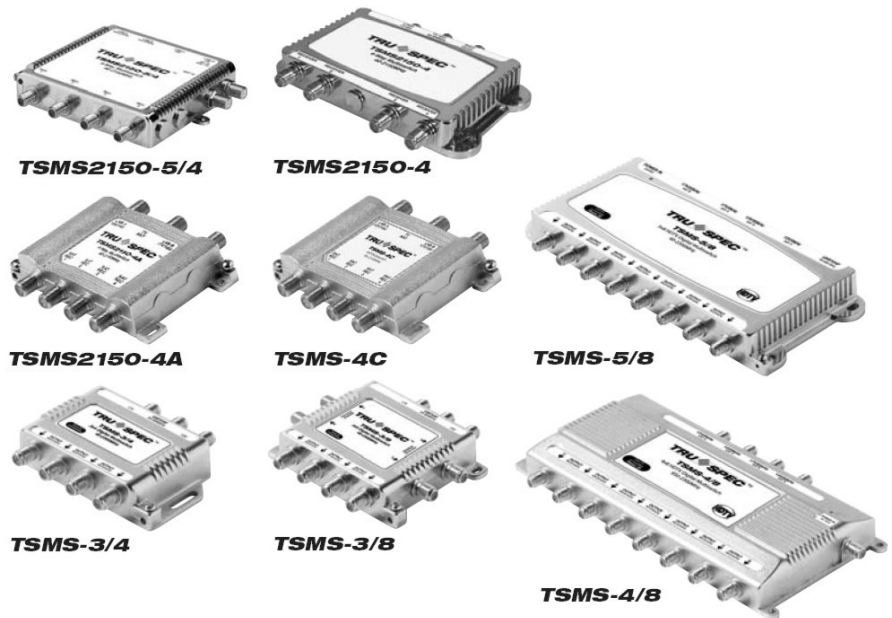


TSMS Series Multiswitches

- Wideband frequency range 40 up to 2300MHz
- High performance SMD multi-layered printed-circuit board design ensures high port-to-port isolation to provide spurious carrier protection and to minimize undesired channel interaction, reducing picture distortion
- High output return loss ports specifically designed for MDU networks and multiple-subscriber applications reduce micro-reflections, improves data recovery and lowers harmonic distortions
- Simple F-type connector interface design provides satellite and antenna signals to be routed to 4 or 8 outputs
- High-performance PIN diode matrix reduces polarity transfer time and digital artifacts providing consistent picture quality
- Antenna signal combines with satellite on output (some models), eliminating external combining, reducing cost and clutter
- Compatible with Direct to Home satellite services providing voltage and tone switching for polarity selection
- 4 and 5 input versions compatible with multi-satellite services providing 4 polarities selected by receiver-supplied voltage 13-14V/17-18VDC and 22kHz tone
- 22kHz continuous tone (TSMS-4/8 and TSMS-5/8) provides full compatibility with DIRECTV phase 3 ODU reception devices
- DC Power pass-through to input reduces cost by providing the satellite receiver a path to power the LNB
- Built-in low-distortion amplifier (some models) compensates for insertion loss, reducing need for external amplification
- Heavy-duty nickel-plated diecast housing for maximum corrosion resistance
- Epoxy-sealed backing prevents moisture migration (some models)
- Precision machined threads ensure secure port-to-connector interface for improved connectivity
- Available external UL approved power supply to reduce heat buildup, increasing unit life

TSMS Series Satellite IF Multiswitches



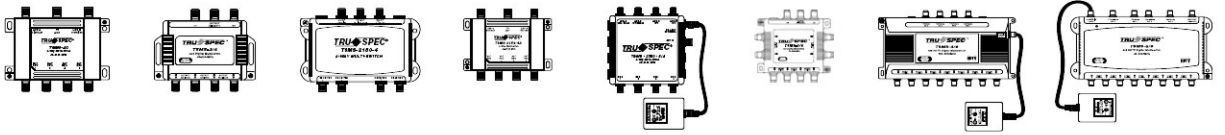
TSMS Series Satellite IF Multiswitches

The TSMS series of professional-grade single and dual satellite multiswitches are used in applications that require satellite IF distribution from 950 up to 2300 MHz, including residential and MDU installations requiring high reliability, low loss equipment. The advanced circuit design incorporates a pin diode matrix to route any of the inputs to any of the outputs by utilizing the control voltages supplied by the satellite receivers, thus eliminating digital artifacts that result from mechanical relay switching. To compensate for insertion loss, most versions use separate built-in satellite amplifiers and, where off-air path is provided, a VHF/UHF terrestrial amplifier. The TSMS series multiswitches, used with the external power supply, will supply power to the LNBs, reducing heat buildup within the multiswitch and prolonging the life of the unit. The 3 input versions provide for 2 satellite polarities and 1 antenna source, the 4 and 5 input versions provide for 4 satellite polarities while the 5 input version additionally provides for 1 antenna source. The TruSpec TSDM-2150 satellite diplexer can be used to combine and/or split the satellite and antenna signals so that they can travel together down a single cable. The TSMS2150-5/4, TSMS-4/8 and TSMS-5/8 multiswitches can also be used in single satellite applications for upgrade to future HDTV expansion. The TSMS-4/8 multiswitch is the optimum replacement for the 4x4 multiswitches on the back of the DIRECTV Multi-Sat dish antenna, providing for connection of up to 8 satellite reception devices.

TSMS Series

Satellite IF Multiswitches

Specifications



	TSMS-4C	TSMS-3/4	TSMS2150-4	TSMS2150-4A	TSMS2150-5/4	TSMS-3/8	TSMS-4/8	TSMS-5/8
Frequency (MHz)	54-2150	54-2300	54-2150	54-2150	54-2150	54-2300	950-2300	54-2300
Insertion Gain/Loss (dB)								
Satellite	-14	+3	-12	+2	+6	-8	0	-5
Antenna	-13	-7	-7	+2	-10	-12	n/a	-5
Isolation (dB)								
LNB to LNB	25	40	35	35	25	26	40	30
Output to Output	25	30	26	26	16	20	40	25
Cross Polar. (dB)	20	20	25	20	25	20	40	25
DC Current Cap.			600mV					
Connections			F-female					
Dimensions	4.4"x3.6"x0.80"	5.8"x5.0"x1.3"	5.8"x4.2"x0.83"	4.4"x3.6"x0.80"	5.5"x5.15"x1.0"	5.8"x5.0"x1.3"	9.9"x5.3"x1.0"	9.9"x5.3"x1.0"
Weight (lbs.)	0.5	0.8	0.8	0.5	1.5	0.9	2.3	2.8

Ordering Information

TSMS-4C	2 LNB & 1 Off-air input x 4 outputs
TSMS-3/4	2 LNB & 1 Off-air input x 4 outputs (amplified)
TSMS2150-4	2 LNB & 1 Off-air inputs x 4 outputs
TSMS2150-4A	2 LNB & 1 Off-air inputs x 4 outputs (amplified)
TSMS2150-5/4	4 LNB & 1 Off-air input x 4 outputs (amplified) w/power supply
TSMS-3/8	2 LNB & 1 Off-air input x 8 outputs (amplified)
TSMS-4/8	4 LNB inputs x 8 outputs (amplified) (DIRECTV Phase 3 ODU compatible) w/power supply
TSMS-5/8	4 LNB & 1 Off-air input x 8 outputs (amplified) (DIRECTV Phase 3 ODU compatible) w/power supply