

# TS4000 Redundancy Switch



The TS0520 redundancy switch provides automatic switchover from a primary TS4000 radio modem to a backup TS4000 radio modem in the event the primary radio modem fails.

## Features

- Automatic data and antenna port switchover from primary radio modem to backup radio modem if primary radio modem fails.
- Front panel selection of the online (active) radio modem.
- Front panel display of each radio modem's receive, transmit, fault and online status.
- Redundancy switch power supplied through each radio modem. No separate power supply required.
- Remote selection of the online radio modem.
- Remote status of operate/fault condition of both the primary and backup radio modems.

## Equipment Configuration Options

- Radio Modems - can be used with all TS4000 models.
- Power Supply Options
  - 1) Single power supply for both TS4000s.
  - 2) Dual redundant power supply. One for each TS4000.
- External Transmit Power Amplifier Options
  - 1) Single power amplifier.
  - 2) Dual redundant amplifier.
    - Optional RF amplifier output monitoring kit will detect RF amplifier failure or high VSWR and automatically switch to the backup TS4000/amplifier pair.
- Antenna Connection Options
  - 1) A common antenna that is automatically switched to the online radio modem.
  - 2) Separate antennas can be connected directly to each radio modem.



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## Models

TS0520-12/N	Rack Mount, 12 volt (11-16VDC), N connectors
TS0520-24/N	Rack Mount, 24 volt (20-28VDC), N connectors
TS0520R-12/N	Panel Mount, 12 volt (11-16VDC), N connectors
TS0520R-24/N	Panel Mount, 24 volt (20-28VDC), N connectors

## Options

TS0520-RFMON/155	RF Amplifier Monitoring Kit, VHF, N connector
TS0520-RFMON/450	RF Amplifier Monitoring Kit, UHF, N connector

## Interfaces

Serial Port 1	Serial Port 1 of the online TS4000
Serial Port 2	Serial Port 2 of the online TS4000 Port 2 is available for configuration, local and remote diagnostics
Antenna Connector	Antenna connector of the online TS4000, N Female BNC, TNC and SMA connector options available
Redundancy Control/Status	Modem A fault - Form C relay Modem B fault - Form C relay Modem A select - TTL/RS-232 level Modem B select - TTL/RS-232 level

## Mechanical

Dimensions - Rack Mount	EIA19" Rack Mount, 2U High 19.0"W x 3.5"H x 11.0"D (48.3cm W x 8.9cm H x 28cm D)
Dimensions - Panel Mount	11.0"W x 4.0"H x 11.0"D (28cm W x 10.2cm H x 28cm D)
Operating Temperature	-22 to +140°F (-30 to +60°C)
Weight	6 lbs.

## TS0520-xx/N Redundancy Switch Assembly Top View

