



Model Number: 23192-F7F7

RF Engineering
and Custom Build

L-band Yacht Antenna Redundancy Switch

With Local Control



Front View of Model 23192-F7F7

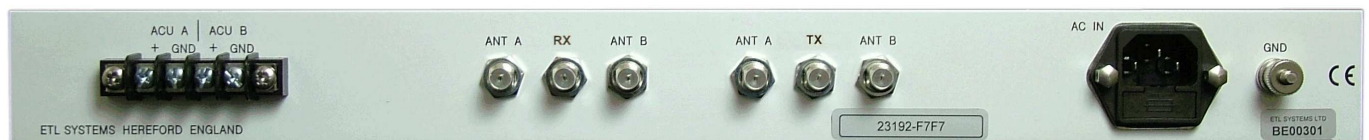
This VSAT antenna redundancy switch or arbitrator is designed to switch TX and RX feeds between two antennas and is designed for use on yachts or ships, where blocking requires automatic switching between the antennas.

The redundancy switch contains two 2:1 switches (one for TX and one for RX) and both are simultaneously switched, by a dry (voltage free) contact signal from the antenna controllers (ACU).

The redundancy switch can be operated in AUTO or MANUAL modes. In AUTO mode the switch position is changed by the input from the 2 antenna ACU's. In MANUAL mode it can be switched from a push button on the front panel.

LEDs on the front panel indicate the mode and the selected antenna as well as power on and PSU status

The switches pass from DC and 10MHz from the modem for LNB and BUC powering and referencing (for the active antenna only).



Rear view of Model 23192-F7F7

The unit is supplied with 75 ohm F-type connectors, but a range of connector types and impedances are available (model numbers will vary).





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Technical specifications and operating parameters

RF Parameters		
Capacity	2 inputs x 1 outputs	
Frequency Range	850-2150MHz (L-band)	
Insertion Loss	0.75 dB \pm 0.5 dB nominal	0.5 dB typical, max 0.75 dB
Flatness	\pm 1 dB	\pm 1 dB typical
Isolation	I/P - O/P	60 dB
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Input Return Loss	10 dB typical	8.5 dB min
Output Return Loss	10 dB typical	8.5 dB min
LNB Power	Passed from modem to Active antenna only	18 VDC 500mA nominal
BUC Power	Passed from modem to Active antenna only	24 VDC 3A nominal
10MHz	Passed from modem to Active antenna only	For TX & RX
Automatic switching time	200 ms typical	

System Control	
Local Control	Via front panel push buttons
Alarms	Dry contact alarm connectors on rear panel for each antenna

Physical	
Tx Connectors	F-type
Tx Impedance	75 Ω
Rx Connectors	F-type
Rx Impedance	75 Ω
Dimensions	1U high x 350mm deep x 19" wide
Weight	3kg
Colour	White 00-E-55 semi-gloss

Environmental	
Operating temperature	0 to 45°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	85% non-condensing

Power		
AC Power	85-264Vac 50/60Hz	
PSU	Dual redundant	Diode shared, single mains inlet
Hot-swap PSU	No	

Key Features
Dual redundant switch
Local Control and auto control based on ACU input
Dual redundant power supplies

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