

AnaCom's Protection Switch System provides a high reliability 1 for 1 Hot Standby configuration for Anasat[®] transceivers, ELSAT[®] BUCs, SSPAs, and LNBs. The Protection Controller is designed for simple, intuitive operation. TX and RX switches function independently.

Features

- ✓ Easy to install and operate
- ✓ No indoor equipment is needed
- ✓ No extra power source is required
- ✓ Built-in test facilities for improved maintainability and reduced dependence on external test equipment
- ✓ No external power required
- ✓ Serial port for remote control
- ✓ Simple, low cost installation

Built-In Test Facility

To improve and simplify maintenance routines, an external terminal (or computer) can be connected to monitor a number of critical parameters without use of additional test equipment. These include:

- ✓ Transceiver alarm status (TX, RX; A and B)
- ✓ Switch alarm and position status

Benefits

- ✓ High reliability with independent TX and RX switching
- ✓ Simple, intuitive operation requires minimum training
- ✓ "Last Touch" controls allow for remote or local (manual) operation.

Flexible Applications

- ✓ Anywhere high reliability requirements necessitate immediate switching action to a spare equipment
- ✓ Rural Telecommunications expansion
- ✓ Industrial networking
- ✓ LAN and WAN extensions
- ✓ Emergency link restoration
- ✓ Remote surveillance
- ✓ Broadcast
- ✓ Data distribution and collection
- ✓ Point-of-sales systems
- ✓ Video teleconferencing
- ✓ Conventional voice traffic

Compact, Functional Design

AnaCom's Protection System integrates all necessary functions into a small outdoor package. The Protection Controller is fully contained in a small box with manual over-ride controls.

Although normally intended for un-manned, automatic operation, the switch can be locally (or remotely) overridden to place a TX or RX switch (or both) on line and defeat the normal "switch-on-alarm" mode of operation. A single push-button (or remote command) returns the unit to completely automatic operation.

Multiple Configurations

The AnaCom 1 + 1 Protection Switch system comes in configurations for switching between two AnaSat[®] transceivers, or matching pairs of an ELSAT[®] BUC and an LNB. TX-only configurations are built for pairs of AnaSat[®] transceivers, ELSAT[®] BUCS, or SSPAs.

Comprehensive Monitor & Control

The M&C feature allows you to monitor and control the Protection Controller on the same RS-485 M&C bus with the most indoor equipment such as modems and multiplexers. If desired, the serial port can be configured as an RS-232.



TX only



TX + RX

1+1 Protection Switch System

SPECIFICATIONS

ELECTRICAL	ALARM SENSE	OPEN connection for alarm SHORT for normal (non-alarm state)
	ALARM TYPE	TX and RX independent
	RESPONSE TIME	< 1 second
	TX MUTE	Active during a TX switch (0.5 seconds)
	TX IF IMPEDANCE	50 ohms (75 ohms optional); type N
	TX IF LEVEL	±20 dBm MAX
	RX IF IMPEDANCE	50 ohms (75 ohms optional); type N
	TX RF INSERTION LOSS	0.02 dB MAX (switch only)
	TX RF VSWR	< 1.05:1 MAX (switch only); WR-137 or WR-75
RX RF INSERTION LOSS	0.02 dB MAX (switch only)	
RX RF VSWR	< 1.05:1 MAX (switch only); WR-229 or WR-75	
SYSTEM	MANUAL OPERATION	Five push-button switches
	SERIAL PORT	1 RS-232 or 1 RS-485
	PROTOCOL	RS-232 port supports any "dumb terminal" or ASCII interface RS-485 port supports addressed packetized data per Anacom Supervisor™ software specifications
	ALARM RELAY	FORM C summary switch alarm; isolated
	VISUAL INDICATORS	GREEN LEDs indicate switch position RED LEDs indicate active alarms
	POWER	NONE (+12 amps @ 1 volt from ODUs)
	MECHANICAL -C-BAND INCLUDES -Ku-BAND INCLUDES	Switch Controller Box WR-137 and WR-229 waveguide switches WR-75 waveguide switches
ENVIRONMENTAL	TEMPERATURE	-50 to +50°C operational / -40 to +75°C storage
	ALTITUDE	6,500 meters (21,500 ft) max
	RAIN	20 inches per hour
	WIND	150 miles per hour
	VIBRATION	1.0 g random operational, 2.5 g random survival
SHOCK	10 g operational, 40 g survival	
OTHER	CONTROLLER BOX SIZE/WEIGHT	8.5" X 9.5" X 4.0" (216 X 241 X 102 mm) / 3lbs (1.36kg) Mounting: 1/2" holes spaced 5" apart each end
	WR-75 SWITCH (KU Band) SIZE/WEIGHT	4.5" x 2.1" x 2.1" (114 x 53 x 53 mm) / 1.5 lbs (.68 kg)
	WR-137 SWITCH (C BAND) SIZE/WEIGHT	5.2" x 2.3" x 2.3" (132 x 58 x 58 mm) / 2.5 lbs (1.14 kg)
	WR-229 SWITCH (C BAND) SIZE/WEIGHT	8.2" x 3.5" x 3.5" (208 x 89 x 89 mm) / 6.0 lbs (2.73 kg)

*all specifications subject to change 9/17/09

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ANACOM, INC.

Phone: +1 408-519-2062 FAX: +1 408-519-2063
<http://www.anacominc.com>