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## 1582-1650 1:1 Switch, DC-6.5 GHz, SPDT, M\&C Monitor and Channel Select

The 1582-1650 1:1 Switch provides SPDT Auto, Manual or Remote (M\&C) relay switching between CH1 and CH2, DC - 6.5 GHz RF signals. The M\&C provides monitoring of all parameters, Switch and History Reset, and Channel Selection (when in Auto mode only). Alarm conditions on CH 1 and CH 2 are either a contact closure to ground or an open (selectable by a rear panel DIP switch). Auto has three modes:

Auto-CH1 PRIME ; The CH 1 preferred mode - switches from CH 1 to CH 2 only if CH 1 alarms and CH 2 is good. The unit switches back to CH 1 when CH 1 is no longer in alarm or both CH 1 and CH 2 are alarmed.

Auto - LATCH2; Latch to CH 2 mode - switches from CH 1 to CH 2 if CH 1 alarms and CH 2 is good and stays in CH 2 regardless of CH 1 or CH 2 alarm conditions until reset to CH 1 by the front panel Switch Reset switch or M\&C command.

Auto - MIN SW; Minimum Auto switching mode - switching occurs if the active channel (set by the front panel Manual Select switch or M\&C command) alarms and the other channel is clear. It switches back if this channel then alarms and the other is clear.

When power is lost, CH 1 is selected. Front panel LEDs indicate CH 1 and CH 2 alarms, Remote or Manual mode, and redundant power supplies on. Rear panel DIP switches set alarm polarity (NO or NC for alarm), M\&C interface, and Auto modes (CH1 PRIME, LATCH2, or MIN SW). The front panel switch selects the signal path in the Manual mode or selects AUTO switching. The RS232 or RS422/485 M\&C (Ethernet optional) monitors switch positions, LED and alarm status, and selects the RF switch position (when in Auto mode only). A contact closure to ground indicates an internal fault condition or loss of power. Connectors are Type N for RF signals and DB9 for M\&C and alarm input and output contact closures. The $1 R U$ chassis has separately fused, redundant power supplies with $100-240 \pm 10 \%$ VAC input connectors.


1582-1650 FRONT AND REAR PANEL (OPTIONAL ETHERNET SHOWN)
1582-1650 Technical Specifications

## RF Switch Characteristics


${ }^{*} 10^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}$; Specifications subject to change without notice

## Available Options

W8 - Ethernet; w/Web Browser (WB)
W18 - Ethernet; w/WB \& SNMP
W28 - Ethernet; w/TCP/IP, Telnet
W828-W8 + W18 + W28
W31-0 to +50 degrees C operation

## Connectors/Impedance

STD - $50 \Omega$, Type N (RF IN), Type N (RF OUT)
Contact Cross for other options

