

DATA SHEET Rev. 0 3/19/18

1582-225L2 Dual 1:1 Switch, DC-2.5 GHz, 2PDT, M&C Monitor and Channel Select

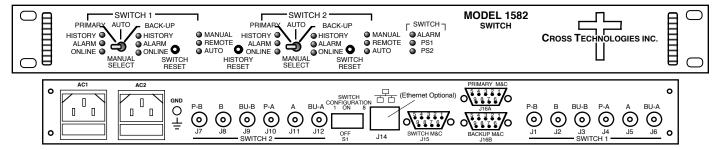
The 1582-225L2 Dual 1:1 Switch provides two 2PDT switch pairs (SWITCH 1 and SWITCH 2). Each switch independently provides Auto, Manual or Remote (M&C) latched relay switching between PRIMARY and BACK-UP, DC - 2.5 GHz RF signals. The M&C provides monitoring of all parameters, Switch and History Reset, and Channel Selection (when in Auto mode only). Alarm conditions on PRIMARY and BACK-UP are either a contact closure to ground or an open (selectable by a rear panel DIP switch). Auto has three modes:

Auto - PRIMARY PRIME ; The PRIMARY preferred mode - switches from PRIMARY to BACK-UP only if PRIMARY alarms and BACK-UP is good. The unit switches back to PRIMARY when PRIMARY is no longer in alarm or both PRIMARY and BACK-UP in alarm. Auto - LATBACK-UP; Latch to BACK-UP mode - switches from PRIMARY to BACK-UP if PRIMARY alarms and BACK-UP is good

and stays in BACK-UP regardless of PRIMARY or BACK-UP alarm conditions until reset to PRIMARY 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, the current latched state remains selected. Front panel LEDs indicate PRIMARY and BACK-UP 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 (PRIMARY PRIME, LATBACK-UP, 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 BNC for RF signals and DB9 for M&C and alarm input and output contact closures. It is powered by separately fused, 100-240 ±10% VAC redundant power supplies.



1582-225L2 FRONT AND REAR PANEL (OPTIONAL ETHERNET SHOWN)

1582-225L2 Technical Specifications

Return Loss Frequency Response Isolation Insertion Loss Switch time DC Switching	12 dB min, ≥ 14 dB typ; DC to 1.5 GHz 10 dB min, ≥ 12 dB typ; 1.5 to 2.5 GHz ≤ ±0.5 dB, 40 MHz BW;≤ ±1 dB, 1 GHz BW 55 dB min, ≥ 60 dB typ; DC to 1.5 GHz 45 dB min, ≥ 50 dB typ; 1.5 to 2.5 GHz 1.5 dB max, ≤ 1.0 dB typ; DC to 1.5 GHz 2.5 dB max, ≤ 2.0 dB typ; 1.5 to 2.5 GHz ≤ 10 milliseconds 30VDC, max; 0.5 Amps, max	P-A RF BU-A RF P-B RF BU-B RF P-A RF BU-A RF ALARM PRIMARY ALARM	SW 2A SWITCHED RF SW 1B SWITCHED RF SWITCH 1 SW 1A SWITCHED RF CONTROLLER REAR PANEL DIP PANEL DIP PANEL DIP SWITCHES
Type, Configuration <u>Alarm and Control, M8</u> Alarm output signal M & C laterface/baud rate	Form C relay: 30VDC, 0.5A max	BACK-UP	M&C SUMMARY ALARM CONTACT CLOSURE
M & C Interface/baud rate RS232C or RS422/485, selectable/9600 (Ethernet Optional)			
Auto/Man Sw Reset, History Reset Pwr; Rem, Man, Alarm	Front Panel switch Front Panel switches or M&C Green, Yellow, Red, Red LED-Form C contact closure	e, M&C	Available Options Remote M&C Interfaces
Connectors, Other RF Connectors Ext. Alarms In, M&C Con.	75Ω BNC (female) DB9 (female) 1 RU, 19 inch standard chassis 1.75" high X 12.0" dee	an	W8 - Ethernet W18 - Ethernet SNMP w/MIB W28 - Ethernet TCP/IP Direct Access W31 - 0 to +50 degrees C operation

*10°C to 40°C; Specifications subject to change without notice

SS - 50Ω SMA