1582-10xx 1:1 Switch, 10 MHz

The 1582-10xx 1:1 Switch/Distribution unit supports Dual (monitored), 10 MHz External Reference Inputs with Auto (Standard or Minimum Auto Switching (MAS) modes), Local (Manual) or Remote relay switching between CH1 and CH2. The unit provides, either one (xx=01), four (xx=04) or eight (xx=08) 10 MHz reference outputs. Alarm conditions monitored on CH1 and CH2 are a level drop below -6 dBm of the 10 MHz signal.

When power is lost and when power is applied (as alarms at power up dictate), CH1 is selected. Front panel LEDs indicate CH1 and CH2 alarms, Remote Enabled (yellow), and Redundant Power supplies on (green). Multi-function push button switches select Auto (MAS=ON/OFF), Local (Manual), or Remote operation and the Channel selected. Remote operation via the RS232/RS422/RS485 (Ethernet optional) M&C interface allows selection of CH1 or CH2 and indicates switch position and alarm status. A contact closure to ground indicates if either or both CH1 and CH2 are in alarm. An LCD display shows mode of operation and the currently selected channel. Connectors are BNC, female for the 10 MHz signals and DB9 for M&C and for the alarm contact closure output. (RJ-45 for Ethernet.) The 1582-10xx is a 1RU chassis with redundant power supplies fed by separate fused 100-240 ±10% VAC AC input connectors.

1582-10xx FRONT AND REAR PANEL

1582-10M Technical Specifications

**Switch Characteristics**
- Impedance: 75 ohms
- Type: Non-latching Relay
- Isolation: >50 dB DC to 10 MHz
- Switchlevel/time: ≤-6±1dB / ≤100 milliseconds
- Insertion Loss: ≤1 dB
- Configuration: SPDT

**Alarm and Control, M&C**
- Alarm output signal: Form C relay; 30VDC, 0.5A max
- M & C Interface: RS232C, RS422, or RS485, Selectable, (Ethernet Optional)
- M & C Signal: 38.4 kB baud rate

**Controls, Indicators**
- Mode Select: Local/Remote, Auto/Manual - push-button switches, contact closures, or remote selection
- Power On Status: Green LEDs, (PS1, PS2),
- Remote Select Status: Yellow LED, M&C serial
- Manual Select Status: M&C serial
- Alarm Status: Red LEDs , External Form C contact closure, M&C serial

**Connectors, Other**
- Ext. Alarm, M&C Conn.: DB9 (female)
- 10 MHz In/Out: BNC, female, 75 ohm
- Size: 1 RU, 19 inch standard chassis 1.75" high X 16.0" deep
- Power: Redundant 100 - 240±10% VAC, 47 - 63 Hz, 20 W max. power supplies

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